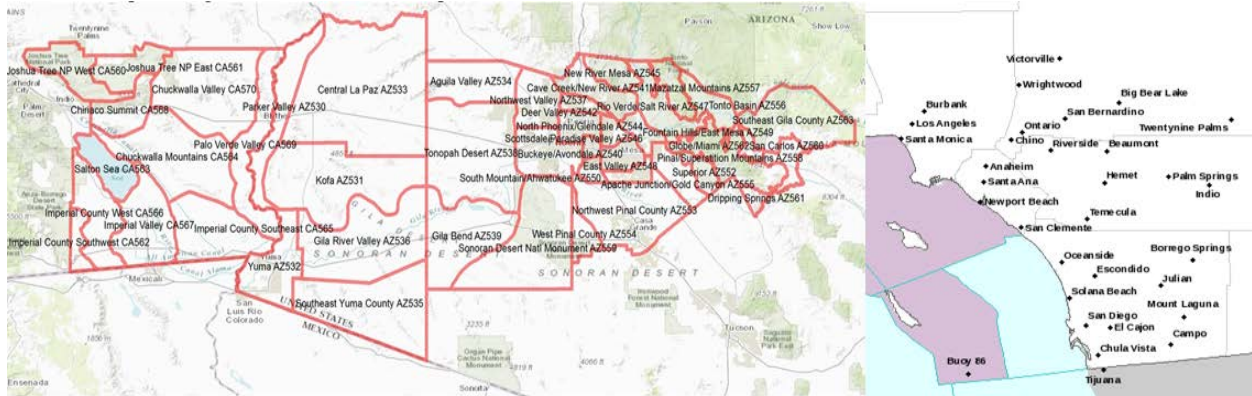


## Appendix A

### Public Notification that a potential event was occurring (40 CFR §50.14(c)(1))

**FIGURE A-1**  
**NATIONAL WEATHER SERVICE PUBLIC ZONES**



**Fig A-1:** Illustrates the public zones serviced by the National Weather Service Office in Phoenix and San Diego. Imperial County, including southeast sections of Riverside County are part of the reporting public zone areas from the Phoenix office

## FIGURE A-2 PHOENIX AREA FORECAST DISCUSSION APRIL 23, 2014

5/21/2018

IEM :: AFD from NWS PSR

109  
FXUS65 KPSR 240355  
AFDPSR

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE PHOENIX AZ  
855 PM MST WED APR 23 2014

### .SYNOPSIS...

WARMER TEMPERATURES WILL MAKE A RETURN THURSDAY AND FRIDAY. ANOTHER...MUCH STRONGER LOW PRESSURE SYSTEM WILL THEN AFFECT THE REGION FROM FRIDAY ONWARD INTO THE UPCOMING WEEKEND. BREEZY TO WINDY CONDITIONS CAN BE EXPECTED ALONG WITH MUCH COOLER TEMPERATURES ON SATURDAY. THERE IS ALSO A CHANCE OF SHOWERS LATE FRIDAY NIGHT INTO SATURDAY NIGHT...MAINLY FOR THE HIGHER TERRAIN OF SOUTH-CENTRAL ARIZONA. HIGH PRESSURE BUILDING BACK NORTHWARD OVER THE WESTERN US IS THEN EXPECTED TO BRING WARMER TEMPERATURES FOR THE EARLY AND MIDDLE PARTS OF NEXT WEEK.

&amp;&amp;

### .DISCUSSION...

COOLER BUT CONTINUED BREEZY CONDITIONS LINGERED TODAY IN THE WAKE OF THE PASSING SHORTWAVE IMPULSE...WHICH HAS NOW CLEAR THE FOUR CORNER AND CLEARING THE ROCKIES FRONT RANGE THIS EVENING. WHILE SURFACE CONDITIONS IN TERMS OF DEWPOINTS HAVE DRIED SUBSTANTIALLY TODAY...WITH SINGLE DIGITS TO LOW 10S OBSERVATIONS...WATER VAPOR IMAGERY AND UPSTREAM RAOBS SHOW SOME HIGH LEVEL MOISTURE STREAMING THROUGH THE SUBTLE RIDGE HEIGHTS TO OUR WEST. PATCHES OF HIGH CLOUDS WILL CONTINUE TO STREAM FROM NORTHWEST TO SOUTHEAST TONIGHT...AT MOST GENERATING BRIEF PERIODS OF PARTLY CLOUDY SKIES. SURFACE TEMPS RUNNING 7 TO 10 DEGREES COOLER THAN THIS TIME TUESDAY EVENING...SO EVEN WITH THE QUICK-PASSING CLOUDS...THINK MIN T FORECAST FOR TONIGHT IS IN GOOD SHAPE. NO MAJOR UPDATES NEEDED...REMAINDER OF THE DISCUSSION STILL APPLIES.

&amp;&amp;

.PREVIOUS DISCUSSION /ISSUED AT 255 PM MST/PDT/...  
SHORT-WAVE RIDGE WILL BUILD IN OVERNIGHT...RESULTING IN MOSTLY CLEAR SKIES AND LIGHT WINDS. THIS WILL PROMOTE EFFICIENT RADIATIONAL COOLING AND TEMPERATURES NEAR OR EVEN SLIGHTLY BELOW NORMAL.

REBOUND IN TEMPERATURES IS EXPECTED THURSDAY AS A SHORT-WAVE RIDGE IN THE SUBTROPICAL EASTERN PACIFIC BUILDS EASTWARD. ATTENTION WILL THEN TURN TO A DEEPENING LOW PRESSURE SYSTEM ALONG THE WEST COAST FRIDAY. BIGGEST IMPACT ACROSS THE FORECAST AREA WILL BE AN INCREASE IN WIND AHEAD OF THIS SYSTEM. WINDS WILL BE STRONGEST ACROSS SE CA WHERE GUSTS TO 35 MPH WILL BE POSSIBLE AND UP TO 30 MPH ACROSS SOUTH-CENTRAL AZ INCLUDING THE PHOENIX METRO AREA.

PREVIOUS DISCUSSION /ISSUED AT 225 AM MST/PDT/...  
THE MODELS ARE ALL NOW SHOWING VERY SHARP HEIGHT FALLS AND

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404240355>

2/5

**Fig A-2:** The National Weather Service Area Forecast Discussion 0755 PM PST (0855 PM MST) Wednesday, April 23, 2014 issued by the Phoenix office describes the coming of a stronger low pressure system beginning Friday, April 25, 2014

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404240355>

### FIGURE A-3 SAN DIEGO AREA FORECAST DISCUSSION APRIL 23, 2014

5/4/2018

IEM :: AFD from NWS SGX

124  
FXUS66 KSGX 240411  
AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
915 PM PDT WED APR 23 2014

**.SYNOPSIS...**

WEAK HIGH PRESSURE ALOFT WILL BRING FAIR WEATHER THURSDAY. A STRONG...COLD LOW PRESSURE SYSTEM WILL MOVE ACROSS SOUTHERN CALIFORNIA FRIDAY AND SATURDAY SCATTERED SHOWERS ALONG AND WEST OF THE MOUNTAINS AND GUSTY WEST WINDS IN THE MOUNTAINS AND DESERTS. A RIDGE OF HIGH PRESSURE BUILDING OVER THE WEST WILL BRING MUCH WARMER WEATHER NEXT WEEK.

**&&**

**.DISCUSSION...**FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

A FEW HIGH CLOUDS WERE MOVING OVER THE REGION THIS EVENING...OTHERWISE SKIES WERE CLEAR. NO SIGN OF MARINE STRATUS...THOUGH A FEW PATCHES MAY DEVELOP OVER THE COASTAL WATERS LATE TONIGHT AS A COASTAL EDDY SPINS UP. FAIR WEATHER THURSDAY WITH HIGH TEMPS NEAR TO SLIGHTLY ABOVE SEASONAL AVERAGES.

A LARGE AND COLD UPPER LEVEL TROUGH BEGINS TO DIG OFF THE WEST COAST AS IT PROGRESSES EASTWARD ON FRIDAY. THIS WILL BRING COOLING WITH A RETURN OF COASTAL LOW CLOUDS AND FOG ON FRIDAY. GUSTY SOUTHWEST TO WEST WINDS WILL DEVELOP OVER THE MOUNTAINS AND DESERTS FRIDAY AFTERNOON AND EVENING...PEAKING FRIDAY NIGHT WITH GUSTS 40 TO 60 MPH. A FEW LIGHT SHOWERS ARE POSSIBLE FRIDAY AFTERNOON...MAINLY ALONG THE COASTAL SLOPES OF THE MOUNTAINS.

THE TROUGH AXIS SWINGS THROUGH SOUTHERN CA LATE FRIDAY INTO EARLY SAT. THERE ARE STILL SOME MINOR DIFFERENCES IN MODEL SOLUTIONS REGARDING THE TIMING AND TRACK OF THE TROUGH. THE GFS...NAM...AND UKMET ARE ALL SLIGHTLY FASTER AND LESS AMPLIFIED...WHILE THE EC AND GEM ARE A LITTLE SLOWER...DIG THE TROUGH FURTHER SOUTH...AND FORM A CLOSED LOW OVER SOUTHERN CA. EITHER SOLUTION WILL RESULT IN RAIN AND SHOW SHOWERS AND STRONG GUSTY WINDS IN THE MOUNTAINS AND DESERTS. HOWEVER...THE COLDER AND MORE UNSTABLE EC/GEM SOLUTION WOULD BRING A GREATER THREAT OF THUNDERSTORMS AND LOWER SNOW LEVELS. AT THIS TIME HAVE GONE WITH SOMETHING IN BETWEEN.

THE MAJORITY OF THE SHOWERS WILL OCCUR FRIDAY NIGHT INTO SATURDAY MORNING. COASTAL AND VALLEY LOCATIONS WILL LIKELY SEE LESS THAN ONE-QUARTER INCH OF RAIN. HOWEVER...STRONG UPSLOPE FLOW ALONG THE COASTAL MOUNTAIN SLOPES WILL GENERATE RAINFALL TOTALS OF AROUND 0.50 TO 0.75 INCHES...WITH ISOLATED AMOUNTS NEAR ONE INCH ALONG THE FAVORED WEST FACING SLOPES. SNOW LEVELS WILL LOWER TO AROUND

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404240415>

2/5

**Fig A-3:** The National Weather Service Area Forecast Discussion 0815 PM PST (0915 PM MST) Wednesday, April 23, 2014 issued by the San Diego office describes the coming of a cold low-pressure system Friday, April 25, 2014 and Saturday, April 26, 2014  
<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404240415>

## FIGURE A-4 SAN DIEGO AREA FORECAST DISCUSSION APRIL 24, 2014

5/4/2018

IEM :: AFD from NWS SGX

881  
FXUS66 KSGX 240951  
AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
300 AM PDT THU APR 24 2014

### .SYNOPSIS...

WEAK HIGH PRESSURE ALOFT WILL BRING FAIR WEATHER TODAY. A STRONG...COLD LOW PRESSURE TROUGH WILL MOVE ACROSS SOUTHERN CALIFORNIA FRIDAY AND SATURDAY WITH SCATTERED SHOWERS AND GUSTY WEST WINDS IN THE MOUNTAINS AND DESERTS. A RIDGE OF HIGH PRESSURE BUILDING OVER THE WEST WILL BRING MUCH WARMER WEATHER NEXT WEEK.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

HARD TO FIND ANY CLOUDS THIS MORNING. A FEW COASTAL CLOUDS COULD FORM BY SUNRISE...BUT WEAK HIGH PRESSURE ALOFT WILL GIVE US ANOTHER BEAUTIFUL DAY TODAY. THAT WILL ALL COME CRASHING DOWN FRIDAY. A DEEPENING LOW PRESSURE TROUGH OVER THE PACIFIC WILL TAKE AIM AT SOUTHERN CALIFORNIA FRIDAY AND MOVE THROUGH THE REGION FRIDAY NIGHT AND SATURDAY MORNING. IT WILL BRING STRONG WINDS TO THE MOUNTAINS...DESERTS AND COASTAL WATERS FRIDAY AFTERNOON AND NIGHT...WITH A LITTLE DECREASE THROUGH SATURDAY EVENING. GUSTS WILL REACH 40 TO 60 MPH IN THE WIND PRONE AREAS AND BLOWING DUST IS QUITE PROBABLE IN PARTS OF THE DESERT. MOSTLY LIGHT SHOWERS WILL ALSO COME ALTHOUGH MOISTURE IS QUITE LIMITED. THE CHANCE OF SHOWERS WILL OCCUR BETWEEN ABOUT 4 PM FRIDAY AND 10 AM SATURDAY. THE STRONG WINDS AT MOUNTAIN LEVEL WILL ENHANCE THE RAINFALL ON COASTAL MOUNTAIN SLOPES. LESS THAN 0.25 INCH IS EXPECTED OVERALL...BUT A COUPLE MOUNTAIN SPOTS COULD REACH 0.75 INCH. SNOW WILL FALL ABOVE 5500 FEET AND AN INCH OR TWO COULD ACCUMULATE ABOVE 6000 FEET. HARDLY WORTH MENTIONING...BUT NOT OUT OF THE QUESTION...ARE ISOLATED THUNDERSTORMS FRIDAY NIGHT. THE SYSTEM SCOOTs OUT EAST SATURDAY LEAVING QUITE A COOL DAY WITH ONLY 60S IN THE COASTAL BASIN. HIGH PRESSURE ALOFT BUILDS GRADUALLY NEXT WEEK AND ANY ORGANIZED MARINE LAYER WILL HAVE TROUBLE FORMING. SO EXPECT REALLY NICE WEATHER WITH A WARMING TREND SUNDAY AND MONDAY. AS THIS RIDGE OF HIGH PRESSURE AMPLIFIES ALONG THE WEST COAST...A COLD AIR MASS OVER THE ROCKIES WILL SEND SOME OFFSHORE FLOW OUR WAY. THIS WILL BOOST MAX TEMPS IN OUR REGION TUESDAY AND WEDNESDAY. 90S WILL BE COMMON AT LOWER ELEVATIONS AND EVEN 80S AT THE COAST. IT WILL BE HARD TO FIND CLOUDS THEN TOO.

&&

### .AVIATION...

240800Z...COAST/VALLEYS...MOSTLY CLEAR SKIES WITH UNRESTRICTED VIS

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404241000>

2/4

**Fig A-4:** The National Weather Service Area Forecast Discussion 0200 AM PST (0300 AM PDT) Thursday, April 24, 2014 issued by the San Diego office describes the deepening low-pressure system

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404241000>



## FIGURE A-5 PHOENIX AREA FORECAST DISCUSSION APRIL 24, 2014

5/21/2018

IEM :: AFD from NWS PSR

129  
FXUS65 KPSR 241000  
AFDPSR

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE PHOENIX AZ  
300 AM MST THU APR 24 2014

### .SYNOPSIS...

WARMER TEMPERATURES ARE EXPECTED TODAY AND FRIDAY. HOWEVER CONSIDERABLE HIGH CLOUDS AND BREEZY CONDITIONS FRIDAY...WILL SIGNAL THE APPROACH OF A STRONG COLD FRONT FOR SATURDAY MORNING. THE COLD FRONT SATURDAY WILL PRODUCE VERY WINDY CONDITIONS ACROSS THE REGION...ALONG WITH AREAS OF BLOWING DUST AND SAND. A CHANCE OF SHOWERS AND POSSIBLY A THUNDERSTORM WILL DEVELOP MAINLY OVER PORTIONS OF SOUTH CENTRAL ARIZONA NEAR PHOENIX. MUCH COOLER TEMPERATURES ARE ALSO EXPECTED SATURDAY. DRY WEATHER...WITH A SLOW WARMING TREND WILL DEVELOP SUNDAY THROUGH THE MIDDLE OF NEXT WEEK.

&&

### .DISCUSSION...

NOTE: A STRONG COLD FRONT WILL PRODUCE HIGH WINDS IN SOUTHEAST CA LATE FRIDAY NIGHT/SATURDAY MORNING...AND VERY WINDY CONDITIONS ELSEWHERE IN SOUTHWEST AND SOUTH CENTRAL AZ SATURDAY MORNING.

### TODAY AND FRIDAY...

A SHORTWAVE RIDGE TODAY WILL PRODUCE NEARLY CLOUDLESS SKIES AND SLIGHTLY ABOVE NORMAL AFTERNOON TEMPERATURES...I.E. LOWER 90S ON THE DESERTS. ON FRIDAY...CONSIDERABLE HIGH CLOUDS...SLIGHTLY WARMER TEMPERATURES...AND AFTERNOON BREEZES WILL DEVELOP. HIGH CLOUDS AND BREEZES WILL SIGNAL THE APPROACH OF A STRONG PACIFIC TROF/COLD FRONT FOR SATURDAY.

### SATURDAY...

MODELS CONTINUE TO MOVE A POTENT SPRING STORM INTO ARIZONA SATURDAY. WE PREFER THE GFS SOLUTION FOR SEVERAL REASONS. ONE...THE WAVE PATTERN OVER THE PACIFIC IS PROGRESSIVE. TWO...A STRONG SPLIT FLOW ALOFT DEVELOPS JUST OFF THE WEST COAST LIMITING AN OVERLY DEEP DIGGING TROF. THREE...THE CENTRAL AND EASTERN U.S. IS FREE FROM ANY BLOCKING SYSTEMS DOWNSTREAM.

THE MAGNITUDE OF THE GFS 12 HR 500 MB HEIGHT FALLS...NEARLY 200 METERS OVER JOSHUA TREE N.P. ZONE 30 AT 12Z SAT...AND ANOTHER 160 METERS NEAR PRESCOTT JUST BEFORE 18Z INDICATE SIGNIFICANT MASS FIELD CHANGES.THEREFORE...THE GREATEST IMPACT OVER OUR FORECAST AREA WILL BE WIND. GUSTS BETWEEN 35 AND 50 MPH ARE LIKELY IN SOUTHEAST CA LATE FRIDAY NIGHT/EARLY SATURDAY MORNING WITH THE COLD FRONT. GUSTY WINDS IN THE 30 TO 45 MPH RANGE WILL SPREAD TOWARD PHOENIX BY LATE SATURDAY MORNING/EARLY AFTERNOON. AREAS OF BLOWING DUST AND SAND ARE EXPECTED.

STRONG VERTICAL MOTION/UPPER LEVEL STORM DYNAMICS WILL MOSTLY BE

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404241000>

2/5

**Fig A-5:** The National Weather Service Area Forecast Discussion 0200 AM PST (0300 AM MST) Thursday, April 24, 2014 issued by the Phoenix office describes a strong cold front affecting Southeast California late Friday/Saturday morning.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404241000>

## FIGURE A-6 SAN DIEGO AREA FORECAST DISCUSSION APRIL 24, 2014

5/4/2018

IEM :: AFD from NWS SGX

r

578

FXUS66 KSGX 241626

AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
925 AM PDT THU APR 24 2014

## .SYNOPSIS...

FAIR TODAY...WITH VARIABLE HIGH CLOUDS AND SEASONAL TEMPERATURES.  
MARINE LAYER CLOUDS AND FOG RETURN TO THE COASTAL AREAS TONIGHT INTO  
FRIDAY MORNING. A STRONG LOW PRESSURE TROUGH WILL MOVE ACROSS  
SOUTHERN CALIFORNIA LATE FRIDAY INTO SATURDAY...BRINGING SCATTERED  
SHOWERS WITH MUCH LOWER TEMPERATURES AND SOME LIGHT SNOW IN THE HIGH  
MOUNTAINS. THE TROUGH WILL ALSO PRODUCE GUSTY WEST WINDS IN THE  
MOUNTAINS AND DESERTS. A RIDGE OF HIGH PRESSURE BUILDING OVER THE  
WEST WILL BRING MUCH WARMER WEATHER NEXT WEEK. PERIODS OF OFFSHORE  
WINDS WILL BE POSSIBLE AT TIMES DURING THE MIDDLE OF NEXT WEEK.

&amp;&amp;

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE...  
SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO  
COUNTIES...

FAIR SKIES THIS MORNING WITH VARIABLE HIGH CLOUDS AND SMALL PATCHES  
OF LOW CLOUDS OFF THE SAN DIEGO COUNTY COAST. THE MORNING SOUNDING  
SHOWS LITTLE IN THE WAY OF A MARINE LAYER...WITH A VERY WEAK  
INVERSION AT ABOUT 1800 FT. EXPECT TEMPERATURES THIS AFTERNOON  
MOSTLY IN THE 60S AT THE COAST AND 70S TO LOW 80S ACROSS THE INLAND  
VALLEYS.

LOW CLOUDS AND FOG WILL LIKELY RETURN TO THE COASTAL AREAS AND  
WESTERN PORTIONS OF THE INLAND VALLEYS TONIGHT INTO FRI MORNING...AS  
ONSHORE FLOW STRENGTHENS AND A COASTAL EDDY FORMS AHEAD OF A LOW  
PRESSURE TROUGH APPROACHING FROM THE NW. THE LOW CLOUDS AND FOG  
SHOULD BURN OFF BY LATE MORNING...BUT DAYTIME TEMPS WILL BE MOSTLY  
IN THE 60S TO LOW 70S WEST OF THE MTNS.

THE DEEPENING LOW PRESSURE TROUGH WILL MOVE THROUGH Socal BETWEEN  
FRI EVENING AND SAT MORNING. IT WILL BRING STRONG WINDS TO THE  
MOUNTAINS...DESERTS AND COASTAL WATERS FRIDAY AFTERNOON AND  
NIGHT...DECREASING SOMEWHAT THROUGH SATURDAY EVENING. IN THE MTNS  
AND ON ADJACENT DESERT SLOPES...WIND GUSTS OF 45 TO 60 MPH ARE  
LIKELY WITH OCCASIONAL GUSTS OF 75 TO 80 MPH IN THE MORE WIND-PRONE  
AREAS. THE WINDS WILL BE STRONGEST FRI EVENING INTO FRI NIGHT.  
BLOWING DUST AND SAND WILL BE POSSIBLE IN THE DESERTS. THE TROUGH  
WILL ALSO BRING SHOWERS...MOSTLY OVER AND WEST OF THE MTNS. SHOWERS  
SHOULD BEGIN MOVING IN FRI EVENING AND CONTINUE THROUGH SAT  
MORNING...THEN TAPER OFF SAT AFTERNOON. MOST OF THE PRECIP IS  
EXPECTED FRI NIGHT WITH TOTALS OF LESS THAN 0.25 INCH FOR MOST  
LOCATIONS WEST OF THE MTNS. THE STRONG SW TO W WINDS WILL RESULT IN  
STRONG OROGRAPHIC ENHANCEMENT...AND SOME AREAS ALONG THE COASTAL MTN

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404241625>

2/5

**Fig A-6:** The National Weather Service Area Forecast Discussion 0825 AM PST (0925 AM PDT) Thursday, April 24, 2014 issued by the San Diego office describes the deepening low-pressure system

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404241625>

## FIGURE A-7 PHOENIX AREA FORECAST DISCUSSION APRIL 24, 2014

5/21/2018 IEM :: AFD from NWS PSR

r  
152  
FXUS65 KPSR 241700  
AFDPSR

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE PHOENIX AZ  
1000 AM MST THU APR 24 2014

.SYNOPSIS...  
WARMER TEMPERATURES ARE EXPECTED TODAY AND FRIDAY. HOWEVER  
CONSIDERABLE HIGH CLOUDS AND BREEZY CONDITIONS FRIDAY...WILL SIGNAL  
THE APPROACH OF A STRONG COLD FRONT FOR SATURDAY MORNING. THE COLD  
FRONT SATURDAY WILL PRODUCE VERY WINDY CONDITIONS ACROSS THE  
REGION...ALONG WITH AREAS OF BLOWING DUST AND SAND. A CHANCE OF  
SHOWERS AND POSSIBLY A THUNDERSTORM WILL DEVELOP MAINLY OVER  
PORTIONS OF SOUTH CENTRAL ARIZONA NEAR PHOENIX. MUCH COOLER  
TEMPERATURES ARE ALSO EXPECTED SATURDAY. DRY WEATHER...WITH A SLOW  
WARMING TREND WILL DEVELOP SUNDAY THROUGH THE MIDDLE OF NEXT WEEK.

&&

.DISCUSSION...  
WATER VAPOR IMAGERY SHOWS SHORT WAVE RIDGE PASSING OVER OUR FORECAST  
AREA TODAY FOR LIGHTER WINDS AND WARMER TEMPERATURES TODAY.

UPSTREAM...A PACIFIC SYSTEM HAS ALREADY BEGUN PUSHING INTO THE  
PACIFIC NORTHWEST. AS THE SYSTEM GETS CLOSER TO OUR AREA...BREEZY TO  
WINDY CONDITIONS WILL DEVELOP FRIDAY AFTERNOON. STRONGEST WINDS WILL  
BE IN OUR WESTERN AREAS. THUS THE FIRE WEATHER WATCH. THE COLD FRONT  
WILL PUSH THROUGH SOUTHEAST CALIFORNIA AND ARIZONA FRIDAY NIGHT AND  
SATURDAY MAINTAINING BREEZY/WINDY CONDITIONS. CURRENT POPS COVER THE  
WINDOW OF OPPORTUNITY FAIRLY WELL BUT SOME FURTHER ADJUSTMENTS MAY  
NEED TO BE MADE AS THE LATEST GFS IS STRONGER WITH THE QG FORCING.  
MUCH COLDER TEMPS SATURDAY STILL LOOKS GOOD. MORE LATER.

&&

.PREVIOUS DISCUSSION ISSUED 300 AM...  
NOTE: A STRONG COLD FRONT WILL PRODUCE HIGH WINDS IN SOUTHEAST CA  
LATE FRIDAY NIGHT/SATURDAY MORNING...AND VERY WINDY CONDITIONS  
ELSEWHERE IN SOUTHWEST AND SOUTH CENTRAL AZ SATURDAY MORNING.

TODAY AND FRIDAY...  
A SHORTWAVE RIDGE TODAY WILL PRODUCE NEARLY CLOUDLESS SKIES AND  
SLIGHTLY ABOVE NORMAL AFTERNOON TEMPERATURES...I.E. LOWER 90S ON THE  
DESERTS. ON FRIDAY...CONSIDERABLE HIGH CLOUDS...SLIGHTLY WARMER  
TEMPERATURES...AND AFTERNOON BREEZES WILL DEVELOP. HIGH CLOUDS AND  
BREEZES WILL SIGNAL THE APPROACH OF A STRONG PACIFIC TROF/COLD FRONT  
FOR SATURDAY.

SATURDAY...  
MODELS CONTINUE TO MOVE A POTENT SPRING STORM INTO ARIZONA SATURDAY.  
WE PREFER THE GFS SOLUTION FOR SEVERAL REASONS. ONE...THE WAVE  
PATTERN OVER THE PACIFIC IS PROGRESSIVE. TWO...A STRONG SPLIT FLOW

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404241700> 2/5

**Fig A-7:** The National Weather Service Area Forecast Discussion 0900 AM PST (1000 AM MST) Thursday, April 24, 2014 issued by the Phoenix office describes a Pacific system already pushing into the Pacific Northwest

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404241700>

## FIGURE A-8 PHOENIX AREA FORECAST DISCUSSION APRIL 24, 2014 – Pg1

5/21/2018

IEM :: AFD from NWS PSR

r  
 046  
 FXUS65 KPSR 242018 AAA  
 AFDPSR

AREA FORECAST DISCUSSION...UPDATED  
 NATIONAL WEATHER SERVICE PHOENIX AZ  
 118 PM MST THU APR 24 2014

.UPDATE...UPDATED AVIATION AND FIRE WEATHER DISCUSSIONS...

&&

.SYNOPSIS...

WARMER TEMPERATURES ARE EXPECTED TODAY AND FRIDAY. HOWEVER  
 CONSIDERABLE HIGH CLOUDS AND BREEZY CONDITIONS FRIDAY...WILL SIGNAL  
 THE APPROACH OF A STRONG COLD FRONT FOR SATURDAY MORNING. THE COLD  
 FRONT SATURDAY WILL PRODUCE VERY WINDY CONDITIONS ACROSS THE  
 REGION...ALONG WITH AREAS OF BLOWING DUST AND SAND. A CHANCE OF  
 SHOWERS AND POSSIBLY A THUNDERSTORM WILL DEVELOP MAINLY OVER  
 PORTIONS OF SOUTH CENTRAL ARIZONA NEAR PHOENIX. MUCH COOLER  
 TEMPERATURES ARE ALSO EXPECTED SATURDAY. DRY WEATHER...WITH A SLOW  
 WARMING TREND WILL DEVELOP SUNDAY THROUGH THE MIDDLE OF NEXT WEEK.

&&

.DISCUSSION...

WATER VAPOR IMAGERY SHOWS SHORT WAVE RIDGE PASSING OVER OUR FORECAST  
 AREA TODAY FOR LIGHTER WINDS AND WARMER TEMPERATURES TODAY.  
 UPSTREAM...A PACIFIC SYSTEM HAS ALREADY BEGUN PUSHING INTO THE  
 PACIFIC NORTHWEST. AS THE SYSTEM GETS CLOSER TO OUR AREA...BREEZY TO  
 WINDY CONDITIONS WILL DEVELOP FRIDAY AFTERNOON. STRONGEST WINDS WILL  
 BE IN OUR WESTERN AREAS. THUS THE FIRE WEATHER WATCH. THE COLD FRONT  
 WILL PUSH THROUGH SOUTHEAST CALIFORNIA AND ARIZONA FRIDAY NIGHT AND  
 SATURDAY MAINTAINING BREEZY/WINDY CONDITIONS. CURRENT POPS COVER THE  
 WINDOW OF OPPORTUNITY FAIRLY WELL BUT SOME FURTHER ADJUSTMENTS MAY  
 NEED TO BE MADE AS THE LATEST GFS IS STRONGER WITH THE QG FORCING.  
 MUCH COLDER TEMPS SATURDAY STILL LOOKS GOOD. MORE LATER.

&&

.PREVIOUS DISCUSSION ISSUED 300 AM...

NOTE: A STRONG COLD FRONT WILL PRODUCE HIGH WINDS IN SOUTHEAST CA  
 LATE FRIDAY NIGHT/SATURDAY MORNING...AND VERY WINDY CONDITIONS  
 ELSEWHERE IN SOUTHWEST AND SOUTH CENTRAL AZ SATURDAY MORNING.

TODAY AND FRIDAY...

A SHORTWAVE RIDGE TODAY WILL PRODUCE NEARLY CLOUDLESS SKIES AND  
 SLIGHTLY ABOVE NORMAL AFTERNOON TEMPERATURES...I.E. LOWER 90S ON THE  
 DESERTS. ON FRIDAY...CONSIDERABLE HIGH CLOUDS...SLIGHTLY WARMER  
 TEMPERATURES...AND AFTERNOON BREEZES WILL DEVELOP. HIGH CLOUDS AND  
 BREEZES WILL SIGNAL THE APPROACH OF A STRONG PACIFIC TROF/COLD FRONT  
 FOR SATURDAY.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404242018>

2/5

## FIGURE A-8

### PHOENIX AREA FORECAST DISCUSSION APRIL 24, 2014 – Pg2

5/21/2018

IEM :: AFD from NWS PSR

SATURDAY...

MODELS CONTINUE TO MOVE A POTENT SPRING STORM INTO ARIZONA SATURDAY. WE PREFER THE GFS SOLUTION FOR SEVERAL REASONS. ONE...THE WAVE PATTERN OVER THE PACIFIC IS PROGRESSIVE. TWO...A STRONG SPLIT FLOW ALOFT DEVELOPS JUST OFF THE WEST COAST LIMITING AN OVERLY DEEP DIGGING TROF. THREE...THE CENTRAL AND EASTERN U.S. IS FREE FROM ANY BLOCKING SYSTEMS DOWNSTREAM.

THE MAGNITUDE OF THE GFS 12 HR 500 MB HEIGHT FALLS...NEARLY 200 METERS OVER JOSHUA TREE N.P. ZONE 30 AT 12Z SAT...AND ANOTHER 160 METERS NEAR PRESCOTT JUST BEFORE 18Z INDICATE SIGNIFICANT MASS FIELD CHANGES.THEREFORE...THE GREATEST IMPACT OVER OUR FORECAST AREA WILL BE WIND. GUSTS BETWEEN 35 AND 50 MPH ARE LIKELY IN SOUTHEAST CA LATE FRIDAY NIGHT/EARLY SATURDAY MORNING WITH THE COLD FRONT. GUSTY WINDS IN THE 30 TO 45 MPH RANGE WILL SPREAD TOWARD PHOENIX BY LATE SATURDAY MORNING/EARLY AFTERNOON. AREAS OF BLOWING DUST AND SAND ARE EXPECTED.

STRONG VERTICAL MOTION/UPPER LEVEL STORM DYNAMICS WILL MOSTLY BE CONFINED TO AREAS SKIRTING THE FAR NORTHERN PORTIONS OF OUR FORECAST AREA...I.E. THE NORTHERN PORTIONS OF LA PAZ...NORTHERN MARICOPA...AND NORTHERN GILA COUNTIES. THESE AREAS COULD SEE A THREAT OF SHOWERS AND POSSIBLE THUNDERSTORM. THE BEST CHANCE OF SHOWERS HOWEVER WILL DEVELOP OVER SOUTHERN GILA COUNTY.

THIS IS A FAST MOVING TROF STORM MOST STORM SUPPORT FORECAST TO MOVE INTO NORTHWEST NEW MEXICO BY EARLY SATURDAY EVENING.

SUNDAY AND MONDAY...

DRY NORTHWEST FLOW ALOFT WITH NEARLY CLOUDLESS SKIES...LIGHTER WIND...AND SLOWLY WARMING AFTERNOON TEMPERATURES ARE EXPECTED THIS PERIOD.

TUESDAY THROUGH FRIDAY...

DRY WEATHER WITH ABOVE NORMAL TEMPERATURES ARE FORECAST. THE ONLY CAVEAT WILL BE GUSTY NORTH WINDS OVER THE FORECAST AREA...ESPECIALLY DOWN THE COLORADO RIVER VALLEY TUESDAY AND WEDNESDAY.

&amp;&amp;

.AVIATION...

SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL... NO WEATHER RELATED AVIATION CONCERNS THROUGH LATE FRIDAY MORNING AS LIGHT DIURNALLY DRIVEN WINDS ARE EXPECTED AT ALL SITES. ASIDE FROM A FEW HIGH CLOUDS...SKIES WILL BE MOSTLY CLEAR THROUGH 18Z FRIDAY.

SOUTHEAST CALIFORNIA/SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH... NO AVIATION CONCERNS FOR THE MAJORITY OF THE TAF PERIOD...BUT WINDS WILL BEGIN TO INCREASE OUT OF THE SSW ON FRIDAY IN ADVANCE OF AN APPROACHING LOW. EXPECT SPEEDS IN THE 15G25KT RANGE JUST AFTER THE END OF THE TAF PERIOD WITH EVEN STRONGER VALUES TOWARD 00Z SATURDAY. CLOUDS WILL ALSO BE ON THE INCREASE BUT SHOULD REMAIN AOA 25KFT THROUGH FRIDAY AFTERNOON.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404242018>

3/5

**Fig A-8:** The National Weather Service Area Forecast Discussion 1218 AM PST (1318 AM MST) Thursday, April 24, 2014 issued by the Phoenix office describes a Pacific system already pushing into the Pacific Northwest

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404241700>



## FIGURE A-9 SAN DIEGO URGENT WEATHER MESSAGE APRIL 24, 2014

5/4/2018

IEM :: NPW from NWS SGX

r

852

WMUS76 KSGX 242031

NPWSGX

URGENT - WEATHER MESSAGE  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
131 PM PDT THU APR 24 2014

...STRONG AND GUSTY WEST WINDS IN THE MOUNTAINS AND DESERTS FRIDAY  
EVENING THROUGH SATURDAY EVENING...

.A STRONG TROUGH OF LOW PRESSURE MOVING THROUGH SOUTHERN  
CALIFORNIA WILL BRING STRONG AND GUSTY SOUTHWEST TO NORTHWEST  
WINDS TO THE MOUNTAINS AND DESERTS FRIDAY EVENING THROUGH  
SATURDAY EVENING.

CAZ055-056-058-060>062-250500-  
/O.NEW.KSGX.HW.A.0006.140426T0300Z-140427T0600Z/  
SAN BERNARDINO COUNTY MOUNTAINS-RIVERSIDE COUNTY MOUNTAINS-  
SAN DIEGO COUNTY MOUNTAINS-APPLE AND LUCERNE VALLEYS-  
COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-  
131 PM PDT THU APR 24 2014

...HIGH WIND WATCH IN EFFECT FROM FRIDAY EVENING THROUGH SATURDAY  
EVENING...

THE NATIONAL WEATHER SERVICE IN SAN DIEGO HAS ISSUED A HIGH WIND  
WATCH...WHICH IS IN EFFECT FROM FRIDAY EVENING THROUGH SATURDAY  
EVENING.

\* WINDS...SOUTHWEST TO WEST WINDS 30 TO 40 MPH...GUSTING TO 65  
MPH. WIND GUSTS OF 70 MPH OR GREATER ARE POSSIBLE IN THE MORE  
WIND-PRONE AREAS.

\* TIMING...SOUTHWEST TO WEST WINDS INCREASING FRIDAY  
EVENING...BECOMING NORTHWEST LATE FRIDAY NIGHT.

\* LOCATION...STRONGEST WINDS NEAR MOUNTAIN RIDGE TOPS AND ON  
ADJACENT DESERT SLOPES.

\* VISIBILITY...REDUCED AT TIMES BY BLOWING SAND AND DUST IN THE  
DESERTS.

\* IMPACTS...THE WINDS WILL MAKE DRIVING DIFFICULT...ESPECIALLY  
FOR MOTORISTS WITH HIGH PROFILE VEHICLES. WATCH FOR BROKEN  
TREE LIMBS AND OTHER DEBRIS.

\* OUTLOOK...WINDS WILL BEGIN TO WEAKEN LATE SATURDAY  
AFTERNOON...BUT REMAIN GUSTY THROUGH SUNDAY MORNING.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A HIGH WIND WATCH MEANS THERE IS THE POTENTIAL FOR A HAZARDOUS

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201404242031>

2/4

**Fig A-9:** The National Weather Service Urgent Weather Message 1231 PM PST (0131 PM PDT) Thursday, April 24, 2014 issued by the San Diego office for the San Diego Mountains and Coachella Valley-San Diego Deserts, effective Friday through Saturday  
<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404242031>

## FIGURE A-10 SAN DIEGO AREA FORECAST DISCUSSION APRIL 24, 2014 – Pg1

5/4/2018

IEM :: AFD from NWS SGX

186  
FXUS66 KSGX 242034  
AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
134 PM PDT THU APR 24 2014

### .SYNOPSIS...

MARINE LAYER CLOUDS AND FOG RETURN TO THE COASTAL AREAS

TONIGHT...SPREADING INLAND BY EARLY FRIDAY MORNING. A STRONG LOW PRESSURE TROUGH WILL MOVE ACROSS SOUTHERN CALIFORNIA LATE FRIDAY INTO SATURDAY...BRINGING SCATTERED SHOWERS WITH MUCH LOWER TEMPERATURES AND SOME LIGHT SNOW IN THE HIGH MOUNTAINS. THE TROUGH WILL ALSO PRODUCE GUSTY WEST WINDS IN THE MOUNTAINS AND DESERTS. A RIDGE OF HIGH PRESSURE BUILDING OVER THE WEST WILL BRING MUCH WARMER WEATHER NEXT WEEK. PERIODS OF OFFSHORE WINDS WILL BE POSSIBLE AT TIMES DURING THE MIDDLE OF NEXT WEEK.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

MOSTLY CLEAR THIS AFTERNOON...EXCEPT FOR A FEW HIGH CLOUDS.

LOW CLOUDS AND FOG WILL LIKELY RETURN TO THE COASTAL AREAS AND WESTERN PORTIONS OF THE INLAND VALLEYS TONIGHT INTO FRI MORNING...AS ONSHORE FLOW STRENGTHENS AND A COASTAL EDDY FORMS AHEAD OF A LOW PRESSURE TROUGH APPROACHING FROM THE NW. THE LOW CLOUDS AND FOG SHOULD BURN OFF BY LATE MORNING...BUT DAYTIME TEMPS WILL BE MOSTLY IN THE 60S TO LOW 70S WEST OF THE MTNS.

THE DEEPENING LOW PRESSURE TROUGH WILL MOVE THROUGH SOCAL BETWEEN FRI EVENING AND SAT MORNING. IT WILL BRING STRONG WINDS TO THE MOUNTAINS...DESERTS AND COASTAL WATERS FRIDAY AFTERNOON AND NIGHT...DECREASING SOMEWHAT THROUGH SATURDAY EVENING. IN THE MTNS AND ON ADJACENT DESERT SLOPES...WIND GUSTS OF 45 TO 65 MPH ARE LIKELY WITH OCCASIONAL GUSTS OF 70 MPH OR GREATER IN THE MORE WIND-PRONE AREAS. THE WINDS WILL BE STRONGEST FRI EVENING INTO FRI NIGHT. BLOWING DUST AND SAND WILL BE POSSIBLE IN THE DESERTS. THE TROUGH WILL ALSO BRING SHOWERS...MOSTLY OVER AND WEST OF THE MTNS. SHOWERS SHOULD BEGIN MOVING IN FROM THE NW FRI EVENING AND CONTINUE THROUGH SAT MORNING...THEN TAPER OFF SAT AFTERNOON. MOST OF THE PRECIP IS EXPECTED FRI NIGHT WITH TOTALS OF LESS THAN 0.25 INCH FOR MOST LOCATIONS WEST OF THE MTNS. THE STRONG SW TO W WINDS WILL RESULT IN STRONG OROGRAPHIC ENHANCEMENT...AND SOME AREAS ALONG THE COASTAL MTN SLOPES COULD GET BETWEEN 0.50 AND 0.75 INCH OF RAIN. THE SNOW LEVEL IS EXPECTED TO LOWER TO BETWEEN 5000 AND 5500 FT BY SAT MORNING...AND A FEW INCHES OF SNOW COULD ACCUMULATE ABOVE 5500 FT WITH UP TO 4 INCHES POSSIBLE AT THE HIGHEST PEAKS OF THE SAN BERNARDINO AND SAN JACINTO MTNS. THE COLD AIR MOVING IN

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404242034>

2/5

**FIGURE A-10**  
**SAN DIEGO AREA FORECAST DISCUSSION APRIL 24, 2014 – Pg2**

5/4/2018

IEM :: AFD from NWS SGX

.SGX WATCHES/WARNINGS/ADVISORIES...  
 CA...WINTER WEATHER ADVISORY FROM 8 PM FRIDAY TO 8 AM PDT SATURDAY FOR  
 THE RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY  
 MOUNTAINS.

HIGH WIND WATCH FROM FRIDAY EVENING THROUGH SATURDAY EVENING FOR  
 THE APPLE AND LUCERNE VALLEYS...COACHELLA VALLEY...  
 RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY  
 MOUNTAINS...SAN DIEGO COUNTY DESERTS...SAN DIEGO COUNTY  
 MOUNTAINS.

PZ...SMALL CRAFT ADVISORY FROM 5 PM FRIDAY TO 11 AM PDT SUNDAY FOR  
 THE COASTAL WATERS FROM SAN MATEO POINT TO THE MEXICAN  
 BORDER AND OUT 30 NM...WATERS FROM SAN MATEO POINT TO THE  
 MEXICAN BORDER EXTENDING 30 TO 60 NM OUT INCLUDING SAN  
 CLEMENTE ISLAND.

&amp;&amp;

\$\$

PUBLIC...PG  
 AVIATION/MARINE...TS

## IOWA STATE UNIVERSITY

College of Ag  
 Department of Agronomy

**Department of Agronomy**  
 716 Farm House Ln  
 Ames, IA 50011  
 akrherz@iastate.edu  
 515-294-5978 phone

☐ Facebook

☐ Twitter

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404242034>

4/5

**Fig A-10:** The National Weather Service Area Forecast Discussion 1234 PM PST (0134 PM PDT) Thursday, April 24, 2014 issued by the San Diego office describes a strong low pressure trough moving across southern California late Friday, April 25, 2014  
<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404242034>

# FIGURE A-11

## PHOENIX AREA FORECAST DISCUSSION APRIL 24, 2014 – Pg1

5/21/2018

IEM :: AFD from NWS PSR

r  
388  
FXUS65 KPSR 242228  
AFDPSR

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE PHOENIX AZ  
330 PM MST THU APR 24 2014

### .SYNOPSIS...

AN APPROACHING LOW PRESSURE SYSTEM WILL LEAD TO INCREASING HIGH CLOUDS FRIDAY AND BREEZY TO WINDY CONDITIONS IN THE AFTERNOON. THE WINDS...AND POSSIBLY BLOWING DUST...WILL CONTINUE FRIDAY NIGHT AND SATURDAY AS THE COLD FRONT MOVES THROUGH THE REGION. MUCH COLDER AIR WILL BE USHERED IN BEHIND THE FRONT WITH HIGHS SATURDAY IN THE 70S ON THE LOWER DESERTS. THE SYSTEM WILL ALSO BE STRONG ENOUGH FOR A CHANCE OF SHOWERS AND A SLIGHT CHANCE OF THUNDERSTORMS...MAINLY OVER SOUTH-CENTRAL ARIZONA. PRECIPITATION CHANCES WILL TREND DOWNWARD FROM WEST TO EAST SATURDAY AFTERNOON. DRY WEATHER...WITH A SLOW WARMING TREND WILL DEVELOP SUNDAY THROUGH THE MIDDLE OF NEXT WEEK.

&&

### .DISCUSSION...

#### REST OF TODAY AND FRIDAY...

LIGHT WINDS HAVE PREVAILED TODAY AND EARLY AFTERNOON TEMPERATURES ARE RUNNING SOMEWHAT WARMER THAN AT THE SAME TIME YESTERDAY. AN APPROACHING PACIFIC SYSTEM HAS ALREADY BEGUN PUSHING INTO THE PACIFIC NORTHWEST. AS THE SYSTEM GETS CLOSER TO OUR AREA...BREEZY TO WINDY CONDITIONS WILL DEVELOP FRIDAY AFTERNOON. STRONGEST WINDS WILL BE IN OUR WESTERN AREAS. THE FIRE WEATHER WATCH FOR THE LOWER COLORADO RIVER VALLEY HAS BEEN CONVERTED TO A WARNING. TEMPS WILL STILL BE WARM WITH LITTLE CHANGE FROM THURSDAY HIGHS.

#### FRIDAY NIGHT THROUGH SATURDAY NIGHT...

THE COLD FRONT WILL PUSH THROUGH SOUTHEAST CALIFORNIA FRIDAY NIGHT AND ARIZONA SATURDAY WHICH WILL KEEP BREEZY/WINDY CONDITIONS GOING. WITH HIGHER HUMIDITIES...FIRE WEATHER CONDITIONS WILL IMPROVE. IN ADDITION TO FRONTAL LIFT...STRONG DYNAMICAL FORCING EVIDENT IN THE DIV Q PARAMETER ALONG WITH UPPER LEVEL DIVERGENCE WILL LEAD TO PRECIPITATION CHANCES ACROSS THE FORECAST AREA WITH THE BEST CHANCES OVER SOUTH-CENTRAL ARIZONA...ESPECIALLY THE HIGHER TERRAIN. CONVECTION POTENTIAL FOR OUR AREA LOOKS LIMITED WITH VERY MEAGER MODEL CAPE AND AT LEAST AS MUCH CIN. BETTER INSTABILITY WILL BE JUST NORTH OF OUR FORECAST AREA CLOSER TO THE COLD POOL ALOFT. BUT GIVEN THE STRENGTH OF THE SYSTEM...HELD ON TO THE SLIGHT CHANCE WORDING WITH RESPECT TO THUNDER FOR NORTHERN PORTIONS OF OUR FORECAST AREA...A LOT BETTER CHANCES FOR NON-THUNDERSTORM RAIN, IF DEEPER CONVECTIVE CLOUDS MANAGE TO FORM...STRONG VERTICAL WIND SHEAR COULD MAKE THEM EVEN MORE POTENT. POPS TREND DOWN FROM WEST TO EAST SATURDAY AFTERNOON WITH LINGERING SLIGHT CHANCES OVER ZONE 24 SATURDAY NIGHT. THE COLD FRONT WILL USHER IN MUCH COLDER TEMPERATURES WITH HIGHS ON THE LOW DESERTS SATURDAY IN THE LOW 70S.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404242230>

2/5

# FIGURE A-11

## PHOENIX AREA FORECAST DISCUSSION APRIL 24, 2014 – Pg2

5/21/2018

IEM :: AFD from NWS PSR

BREEZY OR EVEN WINDY CONDITIONS WILL BE IN PLACE FRIDAY NIGHT THROUGH SATURDAY. ANTICIPATE STRONGEST PUSH OF WINDS RIGHT WITH FRONTAL PASSAGE...FLIRTING WITH ADVISORY CRITERIA IN MANY PLACES. WITH THE WINDS COMES THE POTENTIAL FOR BLOWING DUST...ESPECIALLY IN THE DUST PRONE LOCATIONS OF PINAL COUNTY.

SUNDAY AND MONDAY...  
 DRY NORTHWEST FLOW ALOFT WITH NEARLY CLOUDLESS SKIES...LIGHTER WIND...AND SLOWLY WARMING AFTERNOON TEMPERATURES ARE EXPECTED THIS PERIOD.

TUESDAY THROUGH FRIDAY...  
 DRY WEATHER WITH ABOVE NORMAL TEMPERATURES ARE FORECAST. THE ONLY CAVEAT WILL BE GUSTY NORTH WINDS OVER THE FORECAST AREA...ESPECIALLY DOWN THE COLORADO RIVER VALLEY TUESDAY AND WEDNESDAY.

&amp;&amp;

.AVIATION...  
 SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL...  
 NO WEATHER RELATED AVIATION CONCERNS THROUGH LATE FRIDAY MORNING AS LIGHT DIURNALLY DRIVEN WINDS ARE EXPECTED AT ALL SITES. ASIDE FROM A FEW HIGH CLOUDS...SKIES WILL BE MOSTLY CLEAR THROUGH 18Z FRIDAY.

SOUTHEAST CALIFORNIA/SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...  
 NO AVIATION CONCERNS FOR THE MAJORITY OF THE TAF PERIOD...BUT WINDS WILL BEGIN TO INCREASE OUT OF THE SSW ON FRIDAY IN ADVANCE OF AN APPROACHING LOW. EXPECT SPEEDS IN THE 15G25KT RANGE JUST AFTER THE END OF THE TAF PERIOD WITH EVEN STRONGER VALUES TOWARD 00Z SATURDAY. CLOUDS WILL ALSO BE ON THE INCREASE BUT SHOULD REMAIN AOA 25KFT THROUGH FRIDAY AFTERNOON.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&amp;&amp;

.FIRE WEATHER...  
 SUNDAY THROUGH THURSDAY...  
 CONDITIONS WILL QUIET DOWN ON SUNDAY ALTHOUGH THERE COULD STILL BE SOME BREEZINESS EAST OF PHOENIX SUNDAY AFTERNOON. LIGHT WINDS ARE THEN EXPECTED THROUGH THE MIDDLE OF NEXT WEEK ALONG WITH INCREASING TEMPERATURES AND DECREASING HUMIDITIES. OVERNIGHT RECOVERIES WILL BE FAIR. GIVEN THE LIGHT WINDS...CRITICAL THRESHOLDS SHOULD NOT BE REALIZED NEXT WEEK.

&amp;&amp;

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...RED FLAG WARNING FROM NOON TO 8 PM MST FRIDAY AZZ020-025.

CA...RED FLAG WARNING FROM NOON TO 8 PM PDT FRIDAY CAZ031.

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<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404242230>

3/5

**Fig A-11:** The National Weather Service Area Forecast Discussion 0230 PM PST (0330 PM MST) Thursday, April 24, 2014 issued by the Phoenix office describes an approaching low-pressure system Friday with breezy to windy conditions in the afternoon.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404242230>



## FIGURE A-12

### SAN DIEGO AREA FORECAST DISCUSSION APRIL 24, 2014 – Pg1

5/4/2018

IEM :: AFD from NWS SGX

r  
 978  
 FXUS66 KSGX 250415  
 AFDSGX

AREA FORECAST DISCUSSION  
 NATIONAL WEATHER SERVICE SAN DIEGO CA  
 915 PM PDT FRI APR 24 2014

#### .SYNOPSIS...

MARINE LAYER CLOUDS AND FOG REDEVELOPING AND SPREADING INLAND BY  
 EARLY FRIDAY MORNING. A STRONG LOW PRESSURE TROUGH WILL MOVE THROUGH  
 LATE FRIDAY INTO SATURDAY...BRINGING SCATTERED SHOWERS...MUCH COOLER  
 WEATHER...AND GUSTY WEST WINDS IN THE MOUNTAINS AND DESERTS. A RIDGE  
 OF HIGH PRESSURE BUILDING OVER THE WEST WILL BRING MUCH WARMER  
 WEATHER NEXT WEEK. PERIODS OF OFFSHORE WINDS ARE POSSIBLE DURING  
 THE MIDDLE OF NEXT WEEK.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE...  
 SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO  
 COUNTIES...

LOW CLOUDS ARE RAPIDLY DEVELOPING ALONG THE COAST THIS EVENING. A  
 COASTAL EDDY SPINNING UP WILL HELP DEEPEN THE MARINE LAYER WITH LOW  
 CLOUDS AND FOG SPREADING INTO THE INLAND VALLEYS BY FRIDAY MORNING.

AN UPPER LEVEL TROUGH OF LOW PRESSURE DEEPENING OFF THE WEST COAST  
 WILL MOVE THROUGH SOUTHERN CA LATE FRIDAY AND SATURDAY. THIS WILL  
 BRING CONSIDERABLE COOLING FRIDAY AND SATURDAY WIT TEMPS SEVERAL  
 DEGREES BELOW SEASONAL AVERAGES. GUSTY WEST WINDS WILL DEVELOP IN  
 THE MOUNTAINS...DESERTS...AND COASTAL WATERS FRIDAY EVENING. WINDS  
 WILL STRENGTHEN FRIDAY NIGHT AS THE TROUGH MOVES THROUGH. IN THE  
 MTNS AND ON ADJACENT DESERT SLOPES...WIND GUSTS OF 45 TO 65 MPH ARE  
 LIKELY WITH LOCAL GUSTS OF 70 MPH OR GREATER IN THE WIND-PRONE  
 AREAS. WINDS WILL SLOWLY WEAKEN SATURDAY AFTERNOON...DIMINISHING  
 SATURDAY NIGHT.

PRECIPITATION-WISE...ISOLATED LIGHT SHOWERS MAY BEGIN AS EARLY AS  
 FRIDAY AFTERNOON OVER THE NORTHERN MOUNTAINS...BECOMING MORE  
 WIDESPREAD AND INCREASING IN INTENSITY FRIDAY NIGHT. PRECIPITATION  
 AMOUNTS WILL BE VARIABLE WEST OF THE MOUNTAINS...BUT GENERALLY LESS  
 THAN ONE-QUARTER INCH. STRONG WEST WINDS WILL AID IN OROGRAPHIC LIFT  
 ALONG THE COASTAL MOUNTAIN SLOPES WHERE RAINFALL TOTALS AROUND 0.50  
 TO 0.75 INCHES ARE POSSIBLE. LOCAL AMOUNTS NEAR ONE INCH ARE  
 POSSIBLE ALONG THE FAVORED COASTAL SLOPES. LESS THAN ONE-TENTH INCH  
 IS EXPECTED IN THE DESERTS. THERE IS A SLIGHT CHANCE OF  
 THUNDERSTORMS FRI NIGHT INTO EARLY SAT MORNING. THE BEST INSTABILITY  
 WILL BE OVER SAN BERNARDINO COUNTY WHERE 500 MB TEMPS FALL TO AROUND  
 -23 TO -27C. ANY THUNDERSTORMS THAT DEVELOP COULD PRODUCE SMALL HAIL  
 AND LOCALLY HEAVY RAINFALL. SHOWERS WILL TAPER OFF IN MOST AREAS BY  
 LATE SATURDAY MORNING...THOUGH A FEW SHOWERS MAY LINGER ALONG THE  
 RIVERSIDE AND SAN DIEGO COUNTY COASTAL SLOPES INTO SATURDAY

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404250415>

2/8

**FIGURE A-12**  
**SAN DIEGO AREA FORECAST DISCUSSION APRIL 24, 2014 – Pg2**

5/4/2018

IEM :: AFD from NWS SGX

AFTERNOON. THE SNOW LEVEL IS EXPECTED TO LOWER TO BETWEEN 4500 AND 5500 FT BY SAT MORNING...WITH 2-4 INCHES OF SNOW POSSIBLE ABOVE 5500 FT. LESS THAN ONE INCH OF SNOW IS EXPECTED ABOVE 5000 FT IN THE SAN DIEGO COUNTY MOUNTAINS.

THE TROUGH QUICKLY EXITS LATE SAT WITH DRY NW FLOW ALOFT ON SUNDAY FOR MINOR WARMING AND FAIR WEATHER. A HIGH PRESSURE RIDGE GRADUALLY BUILDS IN FROM THE WEST NEXT WEEK WITH WARMER WEATHER AND MOSTLY SUNNY SKIES PREVAILING. A COLD SFC HIGH OVER THE INTER-MOUNTAIN WEST WILL BRING PERIODS OF OFFSHORE FLOW...BRINGING ADDITIONAL WARMING WEST OF THE MOUNTAINS. HIGHS IN THE 80S AND 90S WILL PREVAIL AT THE LOWER ELEVATIONS...INCLUDING THE BEACHES...TUE AND WED. HIGHS IN THE MTNS WILL GENERALLY BE IN THE MID 60S TO MID 70S. MINOR COOLING ALONG THE COAST THU AS ONSHORE FLOW RETURNS WITH WARM CONDITIONS CONTINUING INLAND.

&amp;&amp;

.AVIATION...  
250300Z...COAST/VALLEYS...STRATUS...WITH BASES AROUND 1500 FT MSL AND TOPS TO 2000 FT MSL...WILL DEVELOP ALONG THE COAST THIS EVENING...AND SPREAD AROUND 30-40 SM INLAND BY MID FRIDAY MORNING. A COASTAL EDDY WILL HELP STRATUS TOPS AND BASES LIFT AROUND 500 FT OVERNIGHT. VIS WILL LOWER TO 2-4 SM BR WHERE LOW CLOUDS NEAR HIGHER TERRAIN. STRATUS WILL BECOME SCT FRI AFTN...THEN BKN/OVC FRI EVENING...WITH SLIGHTLY HIGHER TOPS AND BASES.

MTNS/DESERTS...FEW/SCT CLOUDS AOA 20K FT WITH UNRESTRICTED VIS THROUGH FRIDAY EVENING. SOUTHWESTERLY WINDS OF 25 TO 35 KT...WITH GUSTS TO 60 KT WILL INCREASE OVER MTNS AND DESERT MTN SLOPES FRI EVENING...WITH WINDY CONDITIONS CONTINUING THROUGH SAT.

&amp;&amp;

.MARINE...

NO MARINE ISSUES THROUGH MIDDAY FRIDAY.

FRI AFTERNOON THROUGH SAT...WESTERLY WIND GUSTS AROUND 30 KT WILL DEVELOP OVER THE COASTAL WATERS...ACCOMPANIED BY A STEEP WNW SWELL TO AROUND 10 FT. WINDS AND SEAS WILL CREATE CONDITIONS HAZARDOUS FOR SMALL CRAFT DURING THIS PERIOD. A SMALL CRAFT ADVISORY REMAINS IN EFFECT FOR FRIDAY EVENING THROUGH SUNDAY MORNING. WINDS WILL DECREASE SUNDAY AFTERNOON.

A 3-4 FT LONG-PERIOD SOUTH SWELL THIS WEEKEND MAY PRODUCE HIGH SURF CONDITIONS WITH SETS OF 7 TO 8 FT ALONG FAVORED SOUTH-FACING BEACHES OF ORANGE COUNTY SAT-SUN. SLIGHTLY LOWER SURF IS FORECAST FOR SAN DIEGO COUNTY BEACHES...HOWEVER STRONG LONGSHORE AND RIP CURRENTS ARE LIKELY.

&amp;&amp;

.SKYWARN...

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pi=AFDSGX&e=201404250415>

3/8

**FIGURE A-12**  
**SAN DIEGO AREA FORECAST DISCUSSION APRIL 24, 2014 – Pg3**

5/4/2018

IEM :: AFD from NWS SGX

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...WINTER WEATHER ADVISORY FROM 8 PM FRIDAY TO 11 AM PDT SATURDAY FOR THE RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS.

HIGH WIND WATCH FROM FRIDAY EVENING THROUGH SATURDAY EVENING FOR THE APPLE AND LUCERNE VALLEYS...COACHELLA VALLEY... RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS...SAN DIEGO COUNTY DESERTS...SAN DIEGO COUNTY MOUNTAINS.

PZ...SMALL CRAFT ADVISORY FROM 5 PM FRIDAY TO 11 AM PDT SUNDAY FOR THE COASTAL WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER AND OUT 30 NM...WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER EXTENDING 30 TO 60 NM OUT INCLUDING SAN CLEMENTE ISLAND.

&&

\$\$

PUBLIC...SS

AVIATION/MARINE...JJT

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404250415>

4/8

**Fig A-12:** The National Weather Service Area Forecast Discussion 0815 PM PST (0900 PM PDT) Thursday, April 24, 2014 issued by the San Diego office describes a strong low pressure trough moving through late Friday, April 25, 2014 into Saturday  
<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404250415>

### FIGURE A-13 SAN DIEGO URGENT WEATHER MESSAGE APRIL 24, 2014

5/4/2018 IEM :: NPW from NWS SGX

r  
962  
WMUS76 KSGX 250422  
NPWSGX

URGENT - WEATHER MESSAGE  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
922 PM PDT THU APR 24 2014

...STRONG AND GUSTY WEST WINDS IN THE MOUNTAINS AND DESERTS  
FRIDAY EVENING THROUGH SATURDAY EVENING...

.A STRONG TROUGH OF LOW PRESSURE MOVING THROUGH SOUTHERN  
CALIFORNIA WILL BRING STRONG AND GUSTY SOUTHWEST TO WEST WINDS TO  
THE MOUNTAINS AND DESERTS FRIDAY EVENING THROUGH SATURDAY EVENING.

CAZ055-056-058-060>062-251300-  
/O.CON.KSGX.HW.A.0006.140426T0300Z-140427T0600Z/  
SAN BERNARDINO COUNTY MOUNTAINS-RIVERSIDE COUNTY MOUNTAINS-  
SAN DIEGO COUNTY MOUNTAINS-APPLE AND LUCERNE VALLEYS-  
COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-  
922 PM PDT THU APR 24 2014

...HIGH WIND WATCH REMAINS IN EFFECT FROM FRIDAY EVENING THROUGH  
SATURDAY EVENING...

\* WINDS...SOUTHWEST TO WEST WINDS 30 TO 40 MPH...GUSTING TO 65  
MPH. WIND GUSTS OF 70 MPH OR GREATER ARE POSSIBLE IN THE MORE  
WIND-PRONE AREAS.

\* TIMING...SOUTHWEST TO WEST WINDS INCREASING FRIDAY EVENING...  
PEAKING FRIDAY NIGHT. WINDS WILL SLOWLY WEAKEN SATURDAY  
AFTERNOON AND EVENING BEFORE DIMINISHING SATURDAY NIGHT.

\* LOCATION...STRONGEST ALONG MOUNTAIN RIDGE TOPS AND ON ADJACENT  
DESERT SLOPES...AS WELL AS FAR NORTHERN PORTIONS OF THE COACHELLA  
VALLEY AND FAR SOUTHEAST CORNER OF SAN DIEGO COUNTY.

\* VISIBILITY...REDUCED AT TIMES BY BLOWING SAND AND DUST IN THE  
DESERTS.

\* IMPACTS...THE WINDS WILL MAKE DRIVING DIFFICULT...ESPECIALLY FOR  
MOTORISTS WITH HIGH PROFILE VEHICLES. TRAVEL MAY BE IMPACTED  
ALONG I-10 IN THE COACHELLA VALLEY AND I-8 THROUGH THE SAN DIEGO  
COUNTY MOUNTAINS. WATCH FOR BROKEN TREE LIMBS AND OTHER DEBRIS.

\* OUTLOOK...WINDS WILL BEGIN TO WEAKEN LATE SATURDAY AFTERNOON...  
BUT REMAIN GUSTY THROUGH SUNDAY MORNING.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A HIGH WIND WATCH MEANS THERE IS THE POTENTIAL FOR A HAZARDOUS  
HIGH WIND EVENT. SUSTAINED WINDS OF AT LEAST 40 MPH...OR GUSTS OF  
58 MPH OR STRONGER MAY OCCUR. CONTINUE TO MONITOR THE LATEST

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201404250422>

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**Fig A-13:** The National Weather Service Urgent Weather Message 0822 PM PST (0922 PM PDT) Thursday, April 24, 2014 issued by the San Diego office for the San Diego Mountains and Coachella Valley-San Diego Deserts, effective Friday through Saturday  
<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404250422>

# **FIGURE A-14** **PHOENIX URGENT WEATHER MESSAGE APRIL 25, 2014**

5/21/2018 IEM :: NPW from NWS PSR

848  
 WWUS75 KPSR 250906  
 NPWPSR

URGENT - WEATHER MESSAGE  
 NATIONAL WEATHER SERVICE PHOENIX AZ  
 206 AM MST FRI APR 25 2014

...WIND ADVISORY IN EFFECT FROM 12 AM MST /12 AM PDT/ TO 12 PM  
 MST /12 PM PDT/ WEDNESDAY...

AZZ020-021-025-026-CAZ031>033-252300-  
 /O.NEW.KPSR.WI.Y.0005.140426T0700Z-140426T1900Z/  
 LOWER COLORADO RIVER VALLEY AZ-WEST CENTRAL DESERTS-  
 YUMA/MARTINEZ LAKE AND VICINITY-SOUTHWEST DESERTS-  
 LOWER COLORADO RIVER VALLEY CA-RIVERSIDE COUNTY/EASTERN DESERTS-  
 IMPERIAL COUNTY-  
 INCLUDING THE CITIES OF...EHRENBERG...PARKER...QUARTZSITE...  
 SALOME...FORTUNA FOOTHILLS...YUMA...TACNA...WELLTON...BLYTHE...  
 CHIRIACO SUMMIT...DESERT CENTER...BRAWLEY...CALEXICO...EL CENTRO  
 206 AM MST FRI APR 25 2014 /206 AM PDT FRI APR 25 2014/

...WIND ADVISORY IN EFFECT FROM MIDNIGHT MST /MIDNIGHT PDT/  
 TONIGHT TO NOON MST /NOON PDT/ SATURDAY...

THE NATIONAL WEATHER SERVICE IN PHOENIX HAS ISSUED A WIND  
 ADVISORY...WHICH IS IN EFFECT FROM MIDNIGHT MST /MIDNIGHT PDT/  
 TONIGHT TO NOON MST /NOON PDT/ SATURDAY.

\* AFFECTED AREA...SOUTHEAST CALIFORNIA...THE LOWER COLORADO RIVER  
 VALLEY...AND THE SOUTHWEST DESERTS OF ARIZONA...INCLUDING THE  
 CITIES OF EL CENTRO...BLYTHE...YUMA...TACNA...PORTIONS OF THE  
 SALTON SEA...AND INTERSTATES 8 AND 10 THROUGH SOUTHEAST CALIFORNIA  
 AND SOUTHWEST ARIZONA.

\* TIMING...FROM 12 AM SATURDAY UNTIL 12 PM SATURDAY.

\* WINDS...GUSTY WEST WINDS BETWEEN 25 AND 35 MPH...WITH OCCASIONAL  
 GUSTS TO 50 MPH ARE POSSIBLE.

\* IMPACTS...TRAVEL WILL BE DIFFICULT FOR HIGH PROFILE VEHICLES ON  
 NORTH-SOUTH ORIENTED ROADWAYS. MOTORISTS ON INTERSTATES 8 AND 10  
 WILL ALSO EXPERIENCE HIGH WINDS. PATCHY BLOWING DUST MAY ALSO  
 DEVELOP DUE TO THE HIGH WINDS WHICH COULD RESULT IN REDUCED  
 VISIBILITIES

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN  
 30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND  
 50 MPH. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR  
 HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT AREAS  
 COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER A MILE AT

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201404250906>

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**Fig A-14:** The National Weather Service Urgent Weather Message 0106 AM PST (0206 AM MST) Friday, April 25, 2014 issued by the Phoenix office for the Imperial County, effective Friday through Wednesday

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404250906>



**FIGURE A-15**  
**SAN DIEGO URGENT WEATHER MESSAGE APRIL 25, 2014 – Pg1**

5/18/2018

IEM :: NPW from NWS SGX

7  
 332  
 WMUS76 KSGX 250921  
 NPWSGX

URGENT - WEATHER MESSAGE  
 NATIONAL WEATHER SERVICE SAN DIEGO CA  
 221 AM PDT FRI APR 25 2014

...STRONG AND GUSTY WESTERLY WINDS IN THE MOUNTAINS AND DESERTS  
 LATE TODAY THROUGH SATURDAY EVENING...

.STRENGTHENING LOW PRESSURE OVER THE GREAT BASIN WILL GENERATE  
 INCREASING SOUTHWEST TO WEST WINDS ACROSS SOUTHERN CALIFORNIA  
 LATER TODAY. WIND GUSTS OVER THE MOUNTAINS AND ADJACENT DESERTS  
 WILL BECOME QUITE STRONG EARLY THIS EVENING...WITH GUSTS OVER 60  
 MPH EXPECTED IN WIND PRONE AREAS. WINDS THIS STRONG WILL POSE A  
 HAZARD TO MOTORISTS AND CAUSE CONSIDERABLE BLOWING DUST AND SAND IN  
 THE DESERTS. THE WINDS WILL CONTINUE THROUGH THE NIGHT AND ON  
 SATURDAY BEFORE WEAKENING SATURDAY EVENING.

CAZ055-056-058-060>062-251800-  
 /O.UPG.KSGX.HW.A.0006.140426T0300Z-140427T0600Z/  
 /O.NEW.KSGX.HW.W.0008.140425T2200Z-140427T0400Z/  
 SAN BERNARDINO COUNTY MOUNTAINS-RIVERSIDE COUNTY MOUNTAINS-  
 SAN DIEGO COUNTY MOUNTAINS-APPLE AND LUCERNE VALLEYS-  
 COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-  
 221 AM PDT FRI APR 25 2014

...HIGH WIND WARNING IN EFFECT FROM 3 PM THIS AFTERNOON TO 9 PM  
 PDT SATURDAY...

THE NATIONAL WEATHER SERVICE IN SAN DIEGO HAS ISSUED A HIGH WIND  
 WARNING...WHICH IS IN EFFECT FROM 3 PM THIS AFTERNOON TO 9 PM PDT  
 SATURDAY. THE HIGH WIND WATCH IS NO LONGER IN EFFECT.

- \* WINDS...SOUTHWEST TO WEST WINDS 30 TO 40 MPH...GUSTING TO 65  
 MPH. WIND GUSTS OF 70 MPH OR GREATER ARE POSSIBLE IN THE MORE  
 WIND-PRONE AREAS.
- \* TIMING...SOUTHWEST TO WEST WINDS INCREASING FRIDAY AFTERNOON...  
 PEAKING FRIDAY NIGHT. WINDS WILL SLOWLY WEAKEN SATURDAY  
 AFTERNOON AND EVENING BEFORE DIMINISHING SATURDAY NIGHT.
- \* LOCATION...STRONGEST SUSTAINED WINDS ALONG MOUNTAIN RIDGE TOPS  
 AND ON ADJACENT DESERT SLOPES. STRONG WIND GUSTS WILL SURFACE  
 OCCASIONALLY TO THE DESERT FLOOR.
- \* VISIBILITY...REDUCED AT TIMES BY BLOWING SAND AND DUST IN THE  
 DESERTS.
- \* IMPACTS...THE WINDS WILL MAKE DRIVING DIFFICULT...ESPECIALLY FOR  
 MOTORISTS WITH HIGH PROFILE VEHICLES. TRAVEL MAY BE IMPACTED  
 ALONG I-10 IN THE COACHELLA VALLEY AND I-8 THROUGH THE SAN DIEGO

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201404250921>

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**FIGURE A-15**  
**SAN DIEGO URGENT WEATHER MESSAGE APRIL 25, 2014 – Pg2**

5/18/2018

IEM :: NPW from NWS SGX

COUNTY MOUNTAINS...AND ALONG STATE HIGHWAYS 18 AND 247 IN SAN BERNARDINO COUNTY. WATCH FOR BROKEN TREE LIMBS AND OTHER DEBRIS ON ROADWAYS.

\* OUTLOOK...WINDS WILL BEGIN TO WEAKEN LATE SATURDAY AFTERNOON...BUT REMAIN GUSTY THROUGH SUNDAY MORNING

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A HIGH WIND WARNING MEANS A HAZARDOUS HIGH WIND EVENT IS EXPECTED OR OCCURRING. SUSTAINED WIND SPEEDS OF AT LEAST 40 MPH OR GUSTS OF 58 MPH OR MORE CAN LEAD TO PROPERTY DAMAGE.

&&

\$\$

JAD

**IOWA STATE  
UNIVERSITY**

College of Ag  
Department of Agronomy

**Department of Agronomy**  
716 Farm House Ln  
Ames, IA 50011  
[akrherz@iastate.edu](mailto:akrherz@iastate.edu)  
515-294-5978 phone

☐ Facebook

☐ Twitter

☐ Github

☐ YouTube

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201404250921>

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**Fig A-15:** The National Weather Service Urgent Weather Message 0121 AM PST (0221 AM PDT) Friday, April 25, 2014 issued by the San Diego office for the San Diego Mountains and Coachella Valley-San Diego Deserts, effective Friday through Saturday  
<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404250921>

**FIGURE A-16**  
**SAN DIEGO AREA FORECAST DISCUSSION APRIL 25, 2014 – Pg1**

5/18/2018

IEM :: AFD from NWS SGX

987  
FXUS66 KSGX 251005  
AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
305 AM PDT FRI APR 25 2014

.SYNOPSIS...  
PARTLY CLOUDY AND COOLER TODAY AS A LOW PRESSURE TROUGH APPROACHES FROM THE NORTHWEST. THE TROUGH WILL SWING THROUGH OVERNIGHT... ACCOMPANIED BY SCATTERED SHOWERS AND STRONG...GUSTY WINDS IN THE MOUNTAINS AND DESERTS. COOLER ON SATURDAY WITH STRONG WINDS CONTINUING IN THE DESERTS. AFTER A CHILLY START...IT WILL BE FAIR AND WARMER ON SUNDAY AS HIGH PRESSURE SLOWLY REBUILDS. MUCH WARMER AND DRY FOR THE BALANCE OF THE WEEK UNDER HIGH PRESSURE ALOFT.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

SATELLITE IMAGERY SHOWED HIGH CLOUDS THICKENING FROM THE NW AHEAD OF THE APPROACHING LOW PRESSURE TROUGH OVER THE NE PACIFIC...WHILE THE LOWER MARINE CLOUDS HAVE BEEN SLOWER TO FORM. SURFACE ONSHORE GRADIENTS WERE ACCELERATING ONSHORE WITH 24 HOUR TRENDS OF 6-8 MBS TO NV.

MODELS REMAIN ON TRACK FOR SHARP AMPLIFICATION OF THE EASTPAC TROUGH TONIGHT INTO SAT MORNING WITH A TRACK DIRECTLY OVER SOCAL. RAPID DESTABILIZATION...PVA...AND A BRIEF TAP ON PW NEAR ONE INCH SHOULD BE SUFFICIENT FOR SCATTERED SHOWERS TO FORM LATE FRI NIGHT. THE SHOWERS WILL BE AUGMENTED BY STRONG UPSLOPE FLOW ON THE COASTAL SLOPES RESULTING IN GREATER PRECIP ACCUMULATION THERE. DUE TO THE SPEED OF THIS SYSTEM...AMOUNTS WILL BE LIGHT MOST AREAS...HOWEVER THERE IS A SLIGHT CHANCE FOR A FEW THUNDERSTORMS TO DEVELOP AS THE COLDEST AIR MOVES OVERHEAD. PRECIP IN THE VICINITY OF THUNDERSTORMS COULD BE BRIEFLY HEAVY.

THE MAIN CONCERN WITH THIS SYSTEM WILL BE THE WINDS. STRONGEST WILL OCCUR ON THE DESERT SLOPES OF THE MOUNTAINS AND ONTO THE DESERT FLOOR DUE TO MOUNTAIN WAVE ACTIVITY. THE HIGH WIND WATCH HAS BEEN UPGRADED TO A WARNING FOR LATE TODAY THROUGH SATURDAY FOR THOSE AREAS. FARTHER TO THE WEST...IT WILL BE BREEZY...ESPECIALLY ALONG THE ORANGE COUNTY COAST TODAY AS A MODERATE EDDY SPINS OFFSHORE...THEN OVER ALL AREAS FRI NIGHT INTO SAT AS THE SFC LOW DEEPENS OVER THE HIGH DESERTS...FURTHER TIGHTENING THE SFC GRADIENT.

THIS SYSTEM WILL MOVE OUT AS FAST AS IT MOVES IN...WITH IMPROVING WEATHER SAT NIGHT/SUN. THE DRY AND WARMING TREND WILL CONTINUE FOR THE REMAINDER OF NEXT WEEK AS A HIGHLY AMPLIFIED WAVE PATTERN DEVELOPS ACROSS THE WESTERN HEMISPHERE. THE WEST COAST SHOULD BE

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pi=AFDSGX&e=201404251005>

2/5

## FIGURE A-16

### SAN DIEGO AREA FORECAST DISCUSSION APRIL 25, 2014 – Pg2

5/18/2018

IEM :: AFD from NWS SGX

UNDER A RIDGE...WHILE UPPER TROUGHS COVER THE GREAT LAKES AND NE PACIFIC. THAT WILL MEAN A RETURN OF ABOVE NORMAL TEMPERATURES WITH LITTLE MARINE INFLUENCE FOR AN EXTENDED PERIOD.

WINDS...THIS WILL BE THE MAIN CONCERN WITH THIS SYSTEM. THE HIRES MODELS DO INDICATE CONSIDERABLE MOUNTAIN WAVE ACTIVITY WITH WINDS IN EXCESS OF 50 KTS SURFACING ON THE DESERT SLOPES OF THE SAN JACINTO MOUNTAINS...AND 45-50 KTS IN SAN DIEGO COUNTY. EVEN THE MOS GUIDANCE AT KTRM INDICATES A PERIOD OF SUSTAINED WINDS OF AROUND 27-35 KTS ONTO THE DESERT FLOOR ON SAT. THIS IMPLIES CONSIDERABLY HIGHER GUSTS OF 50 MPH OR GREATER. THERE WILL BE AREAS OF BLOWING DUST AND SAND...AND DIFFICULT DRIVING CONDITIONS ALONG AND EAST OF THE HIGHER MOUNTAINS. WEST OF THE MOUNTAINS...IT WILL BE BREEZY...WITH MOS GUIDANCE INDICATING SUSTAINED WINDS/GUSTS 20 TO 30 MPH LATE FRI NIGHT THROUGH SAT.

PRECIP...RAINFALL WILL BE MOSTLY LIGHT...BUT WITH THE COLD AIR ALOFT AND INSTABILITY FRI NIGHT INTO EARLY SAT...A FEW BRIEF HEAVY SHOWERS ARE POSSIBLE. STILL TOTAL STORM RAINFALL WILL BE LIGHT MOST AREAS. THE STRONG UPSLOPE FLOW ALONG THE COASTAL SLOPES WILL LIKELY AUGMENT AMOUNTS...BUT THE DURATION WILL BE LIMITED. IT WILL BE COLD ENOUGH FOR A COUPLE OF INCHES OF SNOW ON THE HIGHER PEAKS...ESPECIALLY IN SAN BERNARDINO COUNTY. A WINTER WEATHER ADVISORY HAS BEEN POSTED TO COVER THIS FOR FRI NIGHT THROUGH SAT MORNING.

TEMPERATURES...MAX TEMPS WILL BE 2 TO 6 DEGREES LOWER TODAY...AND CONSIDERABLY LOWER INLAND ON SATURDAY WITH 60S WEST OF THE MOUNTAINS AND ACROSS THE HIGH DESERTS...AND 70S IN THE LOWER DESERTS. MUCH WARMER NEXT WEEK WITH HIGHS IN THE 80S AND 90S EXPECTED BY TUE.

&&

.AVIATION...

250900Z...COAST/VALLEYS...SCT/BKN STRATUS WITH BASES AROUND 1500 FT MSL AND TOPS TO 2000 FT MSL WILL DEVELOP ALONG THE COAST EARLY THIS MORNING...AND SPREAD INLAND 30 SM AFT 25/1200Z. A COASTAL EDDY WILL HELP STRATUS TOPS AND BASES LIFT AROUND 500 FT BY MID MORNING. VIS WILL LOWER TO 2-4 SM BR WHERE LOW CLOUDS INTERSECT THE COASTAL. STRATUS WILL ERODE TO THE COAST AFT 25/1600Z LEAVING BEHIND SCT HIGH CLOUDS AOA 20K FT MSL. LOW CLOUDS WITH SLIGHTLY HIGHER BASES AND TOPS WILL RETURN TO COASTAL AND VALLEY AREAS AFT 26/0200Z.

MTNS/DESERTS...SOUTHWESTERLY WINDS OF 25 TO 35 KT...WITH GUSTS TO 60 KT WILL INCREASE OVER MTNS AND DESERT MTN SLOPES FRI EVENING...WITH WINDY CONDITIONS CONTINUING THROUGH SAT. THIS WILL LEAD TO AREAS OF BLOWING DUST...LLWS...AND TURBULENCE FOR AIRCRAFT APPROACHING KPSP AND KTRM IN THE COACHELLA VALLEY.

&&

.MARINE...

FRI AFTERNOON THROUGH SAT...WESTERLY WIND GUSTS 25-35 KT WILL DEVELOP OVER THE COASTAL WATERS...ACCOMPANIED BY A STEEP WNW SWELL

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404251005>

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## FIGURE A-16

### SAN DIEGO AREA FORECAST DISCUSSION APRIL 25, 2014 – Pg3

5/18/2018

IEM :: AFD from NWS SGX

TO AROUND 9 FT. WINDS AND SEAS WILL CREATE CONDITIONS HAZARDOUS FOR SMALL CRAFT DURING THIS PERIOD. A SMALL CRAFT ADVISORY REMAINS IN EFFECT FOR FRIDAY EVENING THROUGH SUNDAY MORNING. WINDS WILL DECREASE SUNDAY AFTERNOON.

A 3-4 FT LONG-PERIOD SOUTH SWELL THIS WEEKEND MAY PRODUCE HIGH SURF CONDITIONS WITH SETS OF 7 TO 8 FT ALONG FAVORED SOUTH-FACING BEACHES OF ORANGE COUNTY SAT-SUN. SLIGHTLY LOWER SURF IS FORECAST FOR SAN DIEGO COUNTY BEACHES...HOWEVER STRONG LONGSHORE AND RIP CURRENTS ARE LIKELY.

&amp;&amp;

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&amp;&amp;

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...SMALL CRAFT ADVISORY FROM 5 PM THIS AFTERNOON TO 11 AM PDT SUNDAY FOR THE SAN DIEGO COUNTY COASTAL AREAS.

HIGH WIND WARNING FROM 3 PM THIS AFTERNOON TO 9 PM PDT SATURDAY FOR THE APPLE AND LUCERNE VALLEYS...COACHELLA VALLEY... RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS...SAN DIEGO COUNTY DESERTS...SAN DIEGO COUNTY MOUNTAINS.

WINTER WEATHER ADVISORY FROM 8 PM THIS EVENING TO 11 AM PDT SATURDAY FOR THE RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS.

BEACH HAZARDS STATEMENT FROM SATURDAY MORNING THROUGH LATE MONDAY NIGHT FOR THE ORANGE COUNTY COASTAL AREAS...SAN DIEGO COUNTY COASTAL AREAS.

PZ...SMALL CRAFT ADVISORY FROM 5 PM THIS AFTERNOON TO 11 AM PDT SUNDAY FOR THE COASTAL WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER AND OUT 30 NM...WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER EXTENDING 30 TO 60 NM OUT INCLUDING SAN CLEMENTE ISLAND.

&amp;&amp;

\$\$

PUBLIC...JAD

AVIATION/MARINE...JT

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404251005>

4/5

**Fig A-16:** The National Weather Service Area Forecast Discussion 0205 AM PST (0305 AM PDT) Friday, April 25, 2014 issued by the San Diego office describes that the trough will swing through overnight accompanied by scattered showers and strong gusty winds in the mountains and deserts

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404251005>



## FIGURE A-17

### PHOENIX AREA FORECAST DISCUSSION APRIL 25, 2014 – Pg1

5/21/2018

IEM :: AFD from NWS PSR

r  
 996  
 FXUS65 KPSR 251014  
 AFDPSR

AREA FORECAST DISCUSSION  
 NATIONAL WEATHER SERVICE PHOENIX AZ  
 313 AM MST FRI APR 25 2014

#### .SYNOPSIS...

AN APPROACHING PACIFIC STORM WILL LEAD TO INCREASING HIGH CLOUDS...  
 AND BREEZY TO WINDY CONDITIONS TODAY. A POWERFUL COLD FRONT WILL  
 FINALLY MOVE THROUGH THE REGION LATE FRIDAY NIGHT AND SATURDAY...  
 PRODUCING STRONG WINDS...MUCH COOLER TEMPERATURES...AND A CHANCE OF  
 SHOWERS IN SOUTH CENTRAL ARIZONA IN THE VICINITY OF PHOENIX.

CLEARING SKIES WITH DIMINISHING WIND IS EXPECTED SATURDAY  
 NIGHT...WITH DRY WEATHER AND A WARMING TREND SUNDAY THROUGH NEXT  
 WEEK.

&&

#### .DISCUSSION...

##### TODAY...

INCREASING SOUTHWESTERLY FLOW ALOFT IS EXPECTED TODAY AS A POWERFUL  
 SPRING STORM BEGINS TO SPIN UP ALONG THE CENTRAL CA COAST BY THIS  
 AFTERNOON. AS A RESULT...INCREASING SOUTH TO SOUTHWEST WINDS...  
 CONSIDERABLE HIGH CLOUDS...AND SLIGHTLY WARMER AFTERNOON  
 TEMPERATURES CAN BE EXPECTED.

##### TONIGHT AND SATURDAY...

AGAIN...MODELS...ESPECIALLY THE GFS...CONTINUE TO BE VERY CONSISTENT  
 WITH MOVING A POWERFUL SPRING STORM INTO OUR FORECAST AREA...

SOUTHEAST CA TO SOUTH CENTRAL AZ...LATE FRIDAY NIGHT AND SATURDAY,  
 HOWEVER THERE ARE SEVERAL CHANGING NUANCES OVER SOUTH-CENTRAL AZ...  
 INCLUDING PHOENIX...WITH THE NEW MODEL RUN. OTHER FUNDAMENTALS ALSO  
 SUGGEST A BETTER CHANCE OF PRECIP AND POSSIBLE THUNDERSTORMS IN  
 SOUTH CENTRAL ARIZONA ON SATURDAY.

HOWEVER THE BIGGEST ISSUE WITH TROF WILL BE WIND. THE GFS MODEL  
 CONTINUES TO FORECAST 12 HR 190 METER 500 MB HEIGHT FALLS OVER  
 PORTIONS OF SOUTHEAST CA BY 12Z SATURDAY...WITH ANOTHER 130 METER  
 OVER PORTIONS OF SOUTHWEST AND SOUTH CENTRAL AZ BY 18Z SAT. HEIGHT  
 FALLS OF THIS MAGNITUDE PORTEND TREMENDOUS MASS FIELD CHANGES. MOST  
 OF THE HEIGHT FALLS OVER OUR FORECAST AREA ARE RELATED TO COLD  
 ADVECTION...AND COUPLED WITH PRESSURE GRADIENT WIND...VERY STRONG  
 SFC WINDS ARE EXPECTED.

WE HAVE DECIDED TO ISSUE A WIND ADVISORY FOR SOUTHEAST CA AND FAR  
 SOUTHWEST AZ...INCLUDING THE COLORADO RIVER FOR 35 MPH TO NEAR 50  
 MPH WINDS BETWEEN 07Z SAT AND 18Z SAT. ITS INTERESTING THAT THE GFS  
 MOS GUIDANCE IS FORECASTING A MAX SUSTAINED WIND OF 35 MPH FOR  
 IMPERIAL CA AROUND 12Z SAT...WITH YUMA AND BLYTHE AT 44 AND 51 MPH  
 RESPECTIVELY AT 15Z SAT. THESE VALUES ARE PERHAPS RELATED TO A  
 SHARP FRONTAL PASSAGE. WINDS OF THIS MAGNITUDE ARE NOT EXPECTED TO

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404251013>

2/5

## FIGURE A-17

### PHOENIX AREA FORECAST DISCUSSION APRIL 25, 2014 – Pg2

5/21/2018

IEM :: AFD from NWS PSR

DEVELOP IN SOUTH CENTRAL AZ VICINITY PHOENIX...BUT VALUES CLOSE TO 40 MPH ARE LIKELY AROUND 17Z. OF COURSE THIS HAS IMPLICATIONS FOR REDUCED VISIBILITIES IN BLOWING DUST AND SAND.

THE OTHER ISSUE WITH SATURDAYS COLD FRONT IS PRECIPITATION. THE GFS NOW SUPPORTS A STRONGER VERTICAL MOTION FIELD/STORM SUPPORT OVER A LARGER PORTION OF LA PAZ AND MARICOPA COUNTIES BY EARLY AFTERNOON. A SECONDARY VORT MAX HAS BEEN FORECAST BY THE GFS TO MOVE ACROSS SOUTH CENTRAL AZ AROUND 19-20Z SAT. GFS MODELED SOUNDINGS OVER LA PAZ AND MARICOPA COUNTIES SHOW MARGINAL AMOUNTS OF MOISTURE...HOWEVER FUNDAMENTALLY...STRONG ATMOSPHERIC HEIGHT FALLS ALONG THE CENTRAL AND SOUTHERN CA COAST SHOULD PRODUCE STRONG SURFACE WIND FOR ROUGH SEAS THAT SHOULD MECHANICALLY INJECT A LATE SURGE OF BOUNDARY LAYER MOISTURE INTO THE FRONTAL ZONE. THEREFORE THE INCREASE IN PRECIP PROBABILITIES ON YESTERDAYS DAY SHIFT WAS A GOOD MOVE. WE WILL INCREASE THEM A LITTLE MORE IN THE FAVORED UPSLOPE AREAS NORTH THROUGH EAST OF PHOENIX...ESPECIALLY IN SOUTHERN GILA COUNTY. THERE IS ALSO A GOOD CHANCE OF A THUNDERSTORM ALONG AND JUST AFTER THE COLD FRONT SATURDAY AFTERNOON.

DIMINISHING WIND AND PRECIP CHANCES ARE EXPECTED SATURDAY EVENING.

SUNDAY AND MONDAY...

DRY NORTHWEST FLOW ALOFT WITH STRONG A ATMOSPHERIC SUBSIDENCE FIELD SHOULD STABILIZE THE ATMOSPHERE FOR DRY WEATHER SUNDAY AND MONDAY. CONTINUED BELOW NORMAL TEMPERATURES ARE FORECAST FOR SUNDAY...WITH A STRONG WARM-UP MONDAY TO NEAR SEASONAL NORMALS.

TUESDAY THROUGH FRIDAY...

DRY WEATHER WITH ABOVE NORMAL TEMPERATURES ARE FORECAST. THE ONLY CAVEAT WILL BE GUSTY NORTH WINDS OVER THE FORECAST AREA...ESPECIALLY DOWN THE COLORADO RIVER VALLEY TUESDAY AND WEDNESDAY.

&&

.AVIATION...

SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL... LIGHT DIURNALLY DRIVEN WINDS ARE EXPECTED AT ALL SITES THROUGH MIDDAY TODAY. THEN A LOW PRESSURE TROUGH APPROACHING THE AREA WILL BRING GUSTY WESTERLY WINDS THIS AFTERNOON AND EVENING TO THE PHX AREA...WITH THESE WINDS THEN CONTINUING THROUGH TONIGHT...AND INTO EARLY SATURDAY...WITH SUSTAINED WIND SPEEDS IN THE 15-18 KT RANGE AND GUSTS TO 25 KNOTS POSSIBLE. HIGH LEVEL CLOUDS WILL THICKEN AND INCREASE IN COVERAGE...BECOMING BKN-OVC FROM FRIDAY EVENING ONWARD INTO EARLY SAT...GNLY REMAINING AOA 20KFT.

SOUTHEAST CALIFORNIA/SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH... WINDS WILL BEGIN TO INCREASE OUT OF THE S/SW TODAY IN ADVANCE OF AN APPROACHING LOW...RAMPING UP BY LATE AFTERNOON TO SUSTAINED VALUES IN THE 25-30KT RANGE WITH GUSTS IN THE 30-40KT RANGE...WITH THESE WINDS THEN CONTINUING THROUGH THE OVERNIGHT HOURS...AND INTO EARLY SAT. BLDU/BLSA WILL LIKELY IMPACT AIRFIELD VSBYS. HIGH LEVEL CLOUDS WILL THICKEN THRU LATE FRIDAY...WITH CIGS IN THE 8-10KFT POSSIBLE BY

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404251013>

3/5

**Fig A-17:** The National Weather Service Area Forecast Discussion 0213 AM PST (0313 AM MST) Friday, April 25, 2014 issued by the Phoenix office describes an approaching Pacific storm that will lead to breezy to windy conditions

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404251013>

**FIGURE A-18**  
**PHOENIX HAZARDOUS WEATHER OUTLOOK APRIL 25, 2014 – Pg1**

5/21/2018

IEM :: HWO from NWS PSR

┌  
823  
FLUS45 KPSR 251312  
HWOPSR

HAZARDOUS WEATHER OUTLOOK  
NATIONAL WEATHER SERVICE PHOENIX AZ  
612 AM MST FRI APR 25 2014

AZZ020-025-CAZ031-261315-  
LOWER COLORADO RIVER VALLEY AZ-YUMA/MARTINEZ LAKE AND VICINITY-  
LOWER COLORADO RIVER VALLEY CA-  
612 AM MST FRI APR 25 2014 /612 AM PDT FRI APR 25 2014/

...RED FLAG WARNING IN EFFECT FROM NOON MST /NOON PDT/ TODAY TO 8 PM  
MST /8 PM PDT/ THIS EVENING...

...WIND ADVISORY IN EFFECT FROM MIDNIGHT MST /MIDNIGHT PDT/ TONIGHT  
TO NOON MST /NOON PDT/ SATURDAY...

THIS HAZARDOUS WEATHER OUTLOOK IS FOR EXTREME SOUTHWEST ARIZONA...  
EXTREME WEST-CENTRAL ARIZONA AND EXTREME SOUTHEAST CALIFORNIA.

.DAY ONE...TODAY AND TONIGHT.

INCREASING AFTERNOON SOUTHWEST WIND...COMBINED WITH VERY LOW  
HUMIDITY WILL INCREASE THE FIRE DANGER TODAY. A RED FLAG WARNING HAS  
BEEN POSTED FOR THE COLORADO RIVER VALLEY FROM NOON TO 8 PM.

ALSO...A WIND ADVISORY HAS BEEN POSTED FROM MIDNIGHT TONIGHT THROUGH  
SATURDAY AFTERNOON. A POWERFUL BUT MOSTLY DRY COLD FRONT WILL MOVE  
THROUGH THE REGION JUST BEFORE SUNRISE SATURDAY MORNING. STRONG WINDS  
BETWEEN 35 MPH AND POSSIBLY 50 MPH ARE EXPECTED. REDUCED VISIBILITY  
IN BLOWING DUST AND SAND IS POSSIBLE.

.DAYS TWO THROUGH SEVEN...SATURDAY THROUGH THURSDAY.

SATURDAY...A WIND ADVISORY IS POSTED THROUGH NOON SATURDAY. STRONG  
WIND BETWEEN 35 MPH AND POSSIBLY 50 MPH ARE EXPECTED. REDUCED  
VISIBILITY IN BLOWING DUST AND SAND IS POSSIBLE.

.SPOTTER INFORMATION STATEMENT...

SPOTTER ACTIVATION MAY BE NEEDED.

\$\$

CAZ030-261315-  
JOSHUA TREE NATIONAL PARK-  
612 AM PDT FRI APR 25 2014

THIS HAZARDOUS WEATHER OUTLOOK IS FOR SOUTHEAST CALIFORNIA.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=HWOPSR&e=201404251312>

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# **FIGURE A-18** **PHOENIX HAZARDOUS WEATHER OUTLOOK APRIL 25, 2014 – Pg2**

5/21/2018

IEM :: HWO from NWS PSR

.DAY ONE...TODAY AND TONIGHT.

A WIND ADVISORY HAS BEEN POSTED FROM MIDNIGHT TONIGHT THROUGH SATURDAY AFTERNOON. A POWERFUL BUT MOSTLY DRY COLD FRONT WILL MOVE THROUGH THE REGION JUST BEFORE SUNRISE SATURDAY MORNING. STRONG WIND BETWEEN 35 MPH AND POSSIBLY 50 MPH ARE EXPECTED.

.DAYS TWO THROUGH SEVEN...SATURDAY THROUGH THURSDAY.

SATURDAY...A WIND ADVISORY IS POSTED THROUGH NOON SATURDAY. STRONG WIND BETWEEN 35 MPH AND POSSIBLY 50 MPH ARE EXPECTED.

.SPOTTER INFORMATION STATEMENT...

SPOTTER ACTIVATION MAY BE NEEDED.

\$\$

CAZ032-033-261315-  
 RIVERSIDE COUNTY/EASTERN DESERTS-IMPERIAL COUNTY-  
 612 AM PDT FRI APR 25 2014

...WIND ADVISORY IN EFFECT FROM MIDNIGHT TONIGHT TO NOON PDT SATURDAY...

THIS HAZARDOUS WEATHER OUTLOOK IS FOR EXTREME SOUTHEAST CALIFORNIA.

.DAY ONE...TODAY AND TONIGHT.

A WIND ADVISORY HAS BEEN POSTED FROM MIDNIGHT TONIGHT THROUGH SATURDAY AFTERNOON. A POWERFUL BUT MOSTLY DRY COLD FRONT WILL MOVE THROUGH THE REGION JUST BEFORE SUNRISE SATURDAY MORNING. STRONG WINDS BETWEEN 35 MPH AND POSSIBLY 50 MPH ARE EXPECTED.

.DAYS TWO THROUGH SEVEN...SATURDAY THROUGH THURSDAY.

SATURDAY...A WIND ADVISORY IS POSTED THROUGH NOON SATURDAY. STRONG WIND BETWEEN 35 MPH AND POSSIBLY 50 MPH ARE EXPECTED.

.SPOTTER INFORMATION STATEMENT...

SPOTTER ACTIVATION MAY BE NEEDED.

\$\$

AZZ022>024-027-028-261315-  
 NORTHWEST MARICOPA COUNTY-GREATER PHOENIX AREA-  
 SOUTHERN GILA COUNTY/TONTO NATIONAL FOREST FOOTHILLS-  
 SOUTHWEST MARICOPA COUNTY-NORTHWEST AND NORTH CENTRAL PINAL COUNTY-

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=HWOPSR&e=201404251312>

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**Fig A-18:** The National Weather Service Hazardous Weather Outlook 0512 AM PST (0612 AM MST) Friday, April 25, 2014 issued by the Phoenix office for the Yuma and Imperial County areas effective through Saturday afternoon

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404251312>

## FIGURE A-19

### PHOENIX AREA FORECAST DISCUSSION APRIL 25, 2014 – Pg1

5/21/2018

IEM :: AFD from NWS PSR

r  
726  
FXUS65 KPSR 251626  
AFDPSR

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE PHOENIX AZ  
925 AM MST FRI APR 25 2014

#### .SYNOPSIS...

AN APPROACHING PACIFIC STORM WILL LEAD TO INCREASING HIGH CLOUDS... AND BREEZY TO WINDY CONDITIONS TODAY. A POWERFUL COLD FRONT WILL FINALLY MOVE THROUGH THE REGION LATE FRIDAY NIGHT AND SATURDAY... PRODUCING STRONG WINDS...MUCH COOLER TEMPERATURES...AND A CHANCE OF SHOWERS IN SOUTH CENTRAL ARIZONA IN THE VICINITY OF PHOENIX.

CLEARING SKIES WITH DIMINISHING WIND IS EXPECTED SATURDAY NIGHT...WITH DRY WEATHER AND A WARMING TREND SUNDAY THROUGH NEXT WEEK.

&&

#### .DISCUSSION...

DEEP PACIFIC TROUGH CENTERED NEAR THE PACIFIC COAST THIS WEEKEND. ASSOCIATED COLD FRONT OVER CALIFORNIA ENTERING L.A. BASIN THIS MORNING. BLENDED TPW IMAGERY SHOWS A CORRIDOR OF .8 TO 1.0 INCHES OF PWAT ALONG AND WEST OF THE CENTRAL CALIFORNIA COAST. LATEST MODEL DATA CONTINUES TO SHOW THE MAIN WINDOW OF OPPORTUNITY FOR PRECIP TO BE 12Z-18Z SATURDAY FOR OUR FORECAST AREA. A VARIETY OF OPINIONS CONTINUE AMONGST THE MODELS ON QPF THOUGH THERE IS GENERALLY GOOD AGREEMENT ON THE TEMPORAL AND SPATIAL PATTERN BETWEEN GFS/NAM/ECMWF. 12Z NAM A BIT MORE GENEROUS THAN PREVIOUS RUNS. LOCAL HI-RES MODELS KEEP QPF CONFINED TO THE HIGHER TERRAIN THOUGH NCEP NMM AND ARW SPREAD SOME TO THE LOWER DESERTS. OVERALL...THERE IS GOOD AGREEMENT THAT THIS WONT BE A SIGNIFICANT PRECIP EVENT...ESPECIALLY FOR THE LOWER DESERTS. MODEL INSTABILITY FORECASTS FOR OUR FORECAST AREA REMAIN QUITE MEAGER BUT MENTION OF SLIGHT CHANCE FOR THUNDER REMAINS WARRANTED...MUCH BETTER CHANCE FOR NON-THUNDERSTORM PRECIP. WINDS WILL GET STRONG...MAINLY SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA...BUT WILL BE TRICKY TO PIN DOWN SINCE STRONGEST FLOW IN THE LOW LEVELS IS OCCURRING OVERNIGHT. OVERALL...CURRENT FORECASTS LOOK TO BE ON TRACK. MORE LATER.

&&

.PREVIOUS DISCUSSION ISSUED 313 AM...  
TODAY...

INCREASING SOUTHWESTERLY FLOW ALOFT IS EXPECTED TODAY AS A POWERFUL SPRING STORM BEGINS TO SPIN UP ALONG THE CENTRAL CA COAST BY THIS AFTERNOON. AS A RESULT...INCREASING SOUTH TO SOUTHWEST WINDS... CONSIDERABLE HIGH CLOUDS...AND SLIGHTLY WARMER AFTERNOON TEMPERATURES CAN BE EXPECTED.

TONIGHT AND SATURDAY...

AGAIN...MODELS...ESPECIALLY THE GFS...CONTINUE TO BE VERY CONSISTENT

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404251625>

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**FIGURE A-19**  
**PHOENIX AREA FORECAST DISCUSSION APRIL 25, 2014 – Pg2**

5/21/2018

IEM :: AFD from NWS PSR

WITH MOVING A POWERFUL SPRING STORM INTO OUR FORECAST AREA... SOUTHEAST CA TO SOUTH CENTRAL AZ...LATE FRIDAY NIGHT AND SATURDAY. HOWEVER THERE ARE SEVERAL CHANGING NUANCES OVER SOUTH-CENTRAL AZ... INCLUDING PHOENIX...WITH THE NEW MODEL RUN. OTHER FUNDAMENTALS ALSO SUGGEST A BETTER CHANCE OF PRECIP AND POSSIBLE THUNDERSTORMS IN SOUTH CENTRAL ARIZONA ON SATURDAY.

HOWEVER THE BIGGEST ISSUE WITH TROF WILL BE WIND. THE GFS MODEL CONTINUES TO FORECAST 12 HR 190 METER 500 MB HEIGHT FALLS OVER PORTIONS OF SOUTHEAST CA BY 12Z SATURDAY...WITH ANOTHER 130 METER OVER PORTIONS OF SOUTHWEST AND SOUTH CENTRAL AZ BY 18Z SAT. HEIGHT FALLS OF THIS MAGNITUDE PORTEND TREMENDOUS MASS FIELD CHANGES. MOST OF THE HEIGHT FALLS OVER OUR FORECAST AREA ARE RELATED TO COLD ADVECTION...AND COUPLED WITH PRESSURE GRADIENT WIND...VERY STRONG SFC WINDS ARE EXPECTED.

WE HAVE DECIDED TO ISSUE A WIND ADVISORY FOR SOUTHEAST CA AND FAR SOUTHWEST AZ...INCLUDING THE COLORADO RIVER FOR 35 MPH TO NEAR 50 MPH WINDS BETWEEN 07Z SAT AND 18Z SAT. ITS INTERESTING THAT THE GFS MOS GUIDANCE IS FORECASTING A MAX SUSTAINED WIND OF 35 MPH FOR IMPERIAL CA AROUND 12Z SAT...WITH YUMA AND BLYTHE AT 44 AND 51 MPH RESPECTIVELY AT 15Z SAT. THESE VALUES ARE PERHAPS RELATED TO A SHARP FRONTAL PASSAGE. WINDS OF THIS MAGNITUDE ARE NOT EXPECTED TO DEVELOP IN SOUTH CENTRAL AZ VICINITY PHOENIX...BUT VALUES CLOSE TO 40 MPH ARE LIKELY AROUND 17Z. OF COURSE THIS HAS IMPLICATIONS FOR REDUCED VISIBILITIES IN BLOWING DUST AND SAND.

THE OTHER ISSUE WITH SATURDAYS COLD FRONT IS PRECIPITATION. THE GFS NOW SUPPORTS A STRONGER VERTICAL MOTION FIELD/STORM SUPPORT OVER A LARGER PORTION OF LA PAZ AND MARICOPA COUNTIES BY EARLY AFTERNOON. A SECONDARY VORT MAX HAS BEEN FORECAST BY THE GFS TO MOVE ACROSS SOUTH CENTRAL AZ AROUND 19-20Z SAT. GFS MODELED SOUNDINGS OVER LA PAZ AND MARICOPA COUNTIES SHOW MARGINAL AMOUNTS OF MOISTURE...HOWEVER FUNDAMENTALLY...STRONG ATMOSPHERIC HEIGHT FALLS ALONG THE CENTRAL AND SOUTHERN CA COAST SHOULD PRODUCE STRONG SURFACE WIND FOR ROUGH SEAS THAT SHOULD MECHANICALLY INJECT A LATE SURGE OF BOUNDARY LAYER MOISTURE INTO THE FRONTAL ZONE. THEREFORE THE INCREASE IN PRECIP PROBABILITIES ON YESTERDAYS DAY SHIFT WAS A GOOD MOVE. WE WILL INCREASE THEM A LITTLE MORE IN THE FAVORED UPSLOPE AREAS NORTH THROUGH EAST OF PHOENIX...ESPECIALLY IN SOUTHERN GILA COUNTY. THERE IS ALSO A GOOD CHANCE OF A THUNDERSTORM ALONG AND JUST AFTER THE COLD FRONT SATURDAY AFTERNOON.

DIMINISHING WIND AND PRECIP CHANCES ARE EXPECTED SATURDAY EVENING.

SUNDAY AND MONDAY...

DRY NORTHWEST FLOW ALOFT WITH A STRONG ATMOSPHERIC SUBSIDENCE FIELD SHOULD STABILIZE THE ATMOSPHERE FOR DRY WEATHER SUNDAY AND MONDAY. CONTINUED BELOW NORMAL TEMPERATURES ARE FORECAST FOR SUNDAY...WITH A STRONG WARM-UP MONDAY TO NEAR SEASONAL NORMALS.

TUESDAY THROUGH FRIDAY...

DRY WEATHER WITH ABOVE NORMAL TEMPERATURES ARE FORECAST. THE ONLY CAVEAT WILL BE GUSTY NORTH WINDS OVER THE FORECAST AREA...ESPECIALLY

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404251625>

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## FIGURE A-19

### PHOENIX AREA FORECAST DISCUSSION APRIL 25, 2014 – Pg3

5/21/2018

IEM :: AFD from NWS PSR

DOWN THE COLORADO RIVER VALLEY TUESDAY AND WEDNESDAY.

&&

.AVIATION...

SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL...  
LIGHT DIURNALLY DRIVEN WINDS ARE EXPECTED AT ALL SITES THROUGH  
MIDDAY TODAY. THEN A LOW PRESSURE TROUGH APPROACHING THE AREA WILL  
BRING GUSTY WESTERLY WINDS THIS AFTERNOON AND EVENING TO THE PHX  
AREA...WITH THESE WINDS THEN CONTINUING THROUGH TONIGHT...AND INTO  
EARLY SATURDAY...WITH SUSTAINED WIND SPEEDS IN THE 15-18 KT RANGE  
AND GUSTS TO 25 KNOTS POSSIBLE. HIGH LEVEL CLOUDS WILL THICKEN  
AND INCREASE IN COVERAGE...BECOMING BKN-OVC FROM FRIDAY EVENING  
ONWARD INTO EARLY SAT...GNLY REMAINING AOA 20KFT.

SOUTHEAST CALIFORNIA/SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...  
WINDS WILL BEGIN TO INCREASE OUT OF THE S/SW TODAY IN ADVANCE OF AN  
APPROACHING LOW...RAMPING UP BY LATE AFTERNOON TO SUSTAINED VALUES  
IN THE 25-30KT RANGE WITH GUSTS IN THE 30-40KT RANGE...WITH THESE  
WINDS THEN CONTINUING THROUGH THE OVERNIGHT HOURS...AND INTO EARLY  
SAT. BLDU/BLSA WILL LIKELY IMPACT AIRFIELD VSBYS. HIGH LEVEL CLOUDS  
WILL THICKEN THRU LATE FRIDAY...WITH CIGS IN THE 8-10KFT POSSIBLE BY  
EARLY SATURDAY MORNING.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.FIRE WEATHER...

SUNDAY THROUGH THURSDAY...  
CONDITIONS WILL QUIET DOWN ON SUNDAY ALTHOUGH THERE COULD STILL BE  
SOME BREEZINESS EAST OF PHOENIX SUNDAY AFTERNOON. LIGHT WINDS ARE  
THEN EXPECTED THROUGH THE MIDDLE OF NEXT WEEK ALONG WITH INCREASING  
TEMPERATURES AND DECREASING HUMIDITIES. OVERNIGHT RECOVERIES WILL BE  
FAIR. GIVEN THE LIGHT WINDS...CRITICAL THRESHOLDS SHOULD NOT BE  
REALIZED NEXT WEEK.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...WIND ADVISORY FROM MIDNIGHT TONIGHT TO NOON MST SATURDAY  
AZZ020-021-025-026.

RED FLAG WARNING FROM NOON TODAY TO 8 PM MST THIS EVENING  
AZZ020-025.

CA...WIND ADVISORY FROM MIDNIGHT TONIGHT TO NOON PDT SATURDAY  
CAZ031>033.

RED FLAG WARNING FROM NOON TODAY TO 8 PM PDT THIS EVENING  
CAZ031.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404251625>

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**Fig A-19:** The National Weather Service Area Forecast Discussion 0825 AM PST (0925 AM MST) Friday, April 25, 2014 issued by the Phoenix office describes an approaching Pacific storm with winds getting stronger mainly along southeast California and southwest Arizona

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404251625>

## FIGURE A-20 SAN DIEGO AREA FORECAST DISCUSSION APRIL 25, 2014 – Pg1

5/18/2018

IEM :: AFD from NWS SGX

518  
FXUS66 KSGX 251631  
AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
930 AM PDT FRI APR 25 2014

### .SYNOPSIS...

PARTLY CLOUDY AND COOLER TODAY WITH TEMPERATURES NEAR SEASONAL AVERAGES. A LOW PRESSURE TROUGH MOVING THROUGH THE REGION TONIGHT WILL BRING SCATTERED SHOWERS MOSTLY OVER AND WEST OF THE MOUNTAINS...WITH SMALL AMOUNTS OF SNOW IN THE HIGH MOUNTAINS. THE TROUGH WILL ALSO BRING STRONG AND GUSTY WINDS IN THE MOUNTAINS AND DESERTS. COOLER ON SATURDAY WITH STRONG WINDS CONTINUING IN THE DESERTS...AND BREEZY CONDITIONS IN THE COASTAL AREAS AND VALLEYS. AFTER A CHILLY START...IT WILL BE FAIR AND WARMER ON SUNDAY AS HIGH PRESSURE SLOWLY REBUILDS. DRY AND WARMER FOR THE WORKWEEK UNDER HIGH PRESSURE ALOFT...WITH LOCALLY GUSTY OFFSHORE WINDS AT TIMES.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

THIS MORNING...SATELLITE IMAGERY SHOWS LOW CLOUDS OVER MUCH OF THE COASTAL AREAS AND VALLEYS WITH HIGH CLOUDS INCREASING FROM THE NW. RADAR SHOWS SOME LIGHT SHOWERS NORTH OF VENTURA COUNTY...MOVING NE. EXPECT PARTIAL CLEARING OF THE LOW CLOUDS BY AFTERNOON AND TEMPS IN THE 60S AND 70S WEST OF THE MTNS.

MODELS REMAIN IN GOOD AGREEMENT REGARDING THE TIMING AND TRACK OF THE LOW PRESSURE TROUGH DEEPENING AND MOVING QUICKLY THROUGH THE REGION TONIGHT AND SAT MORNING. THE TROUGH WILL HAVE ENOUGH DEEP-LAYER MOISTURE...COLD AIR INSTABILITY AND DYNAMIC FORCING TO PRODUCE SCATTERED SHOWERS AND POSSIBLY TSTMS THIS EVENING INTO SAT MORNING. ALTHOUGH CONDITIONS FOR TSTMS WILL NOT BECOME FAVORABLE UNTIL TONIGHT WHEN THE COLDEST AIR MOVES IN ALOFT. MAINLY DUE TO THE RAPID MOVEMENT OF THE SYSTEM...PRCIP AMOUNTS WILL BE MOSTLY A FEW HUNDREDTHS TO ONE QUARTER INCH WEST OF THE MTNS AND LESS THAN ONE TENTH INCH IN THE DESERTS. THE GREATEST ACCUMULATIONS WILL BE ON THE COASTAL SLOPES WHERE STRONG OROGRAPHIC ENHANCEMENT WILL PRODUCE TOTALS OF UP TO THREE QUARTERS OF AN INCH.

THIS SYSTEM WILL BRING STRONG AND GUSTY SW TO W WINDS THIS AFTERNOON AND EVENING...BECOMING NW SAT MORNING. THE STRONGEST WINDS WILL BE IN THE MTNS AND ADJACENT DESERT AREAS WHERE SPEEDS OF 30 TO 40 MPH WITH GUSTS TO 65 MPH ARE EXPECTED. WIND GUSTS OF 70 MPH OR GREATER ARE POSSIBLE ON THE DESERT SLOPES OF THE MTNS WHERE MTN WAVES REACH THE SURFACE. AT LOW ELEVATIONS WEST OF THE MTNS...CONDITIONS WILL BE BREEZY WITH WIND SPEEDS OF 15 TO 20 MPH GUSTING TO 30 MPH IN SOME AREAS. WINDS WILL GRADUALLY WEAKEN SAT AFTERNOON THROUGH SUN MORNING.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pi=AFDSGX&e=201404251630>

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**FIGURE A-20**  
**SAN DIEGO AREA FORECAST DISCUSSION APRIL 25, 2014 – Pg2**

5/18/2018

IEM :: AFD from NWS SGX

THE TROUGH WILL BRING COLD AIR FROM THE NRN PAC INTO SOCAL...RESULTING IN DAYTIME TEMPERATURES IN THE 50S AND 60S WEST OF THE MTNS AND 70S IN THE DESERTS. THESE TEMPS ARE WELL BELOW SEASONAL AVERAGES...ESPECIALLY FOR THE DESERTS.

BY LATE SAT...THE TROUGH WILL HAVE MOVED EAST PUTTING SOCAL UNDER DRY AND STABLE NW FLOW ALOFT. THIS WILL BRING FAIR WEATHER FOR SUN...BUT COOL AND BREEZY CONDITIONS WILL CONTINUE AT LEAST FOR THE EARLY PART OF SUN.

A RIDGE OF HIGH PRESSURE BUILDING IN FROM THE WEST WILL BRING FAIR AND MUCH WARMER WEATHER FOR MON THROUGH THE WORKWEEK. PERIODS OF LOCALLY GUSTY OFFSHORE WINDS WILL DEVELOP FOR TUE THROUGH THU AS A SFC HIGH MOVES INTO THE GREAT BASIN.

SURF...FORE-RUNNERS FROM A MODERATE VERY LONG-PERIOD SOUTH SWELL SHOULD BEGIN ARRIVING TODAY WITH PERIODS OF 22-23 SECONDS. THE SWELL WILL BUILD TONIGHT AND PEAK SATURDAY AFTERNOON THROUGH SUNDAY AT 4 FT/17-19 SECONDS...POSSIBLY PRODUCING HIGH SURF OF 5-8 FEET WITH LOCALLY HIGHER SETS AND STRONG RIP CURRENTS ALONG THE ORANGE COUNTY BEACHES. SAN DIEGO COUNTY WILL BE LESS FAVORED...DUE TO THE SOUTHERLY DIRECTION OF THE SWELL...BUT WILL STILL SEE ELEVATED SURF...STRONG RIP CURRENTS AND LONGSHORE CURRENTS. A BEACH HAZARDS STATEMENT REMAINS POSTED...AND A HIGH SURF ADVISORY MAY BE NECESSARY FOR ORANGE COUNTY BEACHES. THE SWELL WILL SLOWLY LOWER MONDAY THROUGH TUESDAY.

&&

.AVIATION...

251624Z...BKN STRATUS 20-35 SM INLAND IN SAN DIEGO COUNTY...10 SM INLAND IN ORANGE COUNTY...WITH A PATCH INTO THE SOUTHERN INLAND EMPIRE AREA...WITH BASES AROUND 2500 FT MSL AND TOPS AROUND 3000 FT MSL...WILL CLEAR OUT THROUGH 1900 UTC. ELSEWHERE...UNRESTRICTED VIS AND FEW-SCT CLDS AOA 20000 FT MSL.

1900-26/0000 UTC...UNRESTRICTED VIS EVERYWHERE...FEW-SCT CLDS 2500-3500 FT MSL AND FEW-SCT CLDS AOA 20000 FT MSL.

26/0000-1200 UTC...OVER AND W OR SW OF MTNS...INCREASING CLDS IN THE 2000-11000 FT MSL LAYER...WITH INCREASING SHOWERS...AREAS OF VIS 3-5SM...LOCAL VIS/CIGS AOB 25M/1500 FT MSL IN HEAVIER SHOWERS...SLIGHT CHANCE OF THUNDERSTORMS WITH CB TOPS TO 25000 FT MSL WITH POSSIBLE SMALL HAIL/STRONG DOWNDRAFTS...AND MTN OBSCURATION OF COASTAL SLOPES. ELSEWHERE...INCREASING CLDS AOA 10000 FT MSL AND UNRESTRICTED VIS EXCEPT FOR AREAS OF BLOWING DUST IN THE DESERTS PRODUCING VIS AOB 2 SM.

WINDS...BY 26/0000 UTC...SW TO W WINDS OF 25 TO 35 KT...WITH GUSTS OF 40-60 KT OVER THE RIDGES...ALONG DESERT SLOPES...THROUGH PASSES/CANYONS AND INTO ADJACENT DESERT AREAS WILL RESULT IN STG-SVR UDDFS/LLWS/ROTORS OVER AND E OR NE OF THE MTNS. SFC WIND GUSTS MAY APPROACH 30 KT AT KSAN TONIGHT.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pl=AFDSGX&e=201404251630>

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## FIGURE A-20

### SAN DIEGO AREA FORECAST DISCUSSION APRIL 25, 2014 – Pg3

5/18/2018

IEM :: AFD from NWS SGX

&amp;&amp;

.MARINE...

THIS AFTERNOON THROUGH SUNDAY...NORTHWESTERLY WIND GUSTS 25-30 KT WILL DEVELOP OVER THE COASTAL WATERS AS A STRONG TROUGH OF LOW PRESSURE MOVES THROUGH SOUTHERN CALIFORNIA. THERE MAY BE SOME LOCAL GUSTS TO 35 KT...BUT NOT WIDESPREAD OR PERSISTENT ENOUGH TO WARRANT A GALE WARNING ISSUANCE. IN ADDITION...THERE WILL BE A STEEP SHORT-PERIOD WEST-NORTHWEST SWELL AT AROUND 7-9 FEET. WINDS AND SEAS WILL CREATE CONDITIONS HAZARDOUS FOR SMALL CRAFT DURING THIS PERIOD. ALTHOUGH WINDS WILL DROP OFF OVER THE INNER WATERS ON SUNDAY MORNING...LOCAL WRF AND CANSAC WRF INDICATE STRONG WINDS CONTINUING OVER THE OUTER WATERS THROUGH SUNDAY EVENING. THUS...HAVE EXTENDED THE SMALL CRAFT ADVISORY FOR THE OUTER WATERS THROUGH SUNDAY EVENING. THE SMALL CRAFT ADVISORY FOR BOTH THE INNER AND OUTER WATERS GOES INTO EFFECT EARLY THIS EVENING. SEE LAXMMWSGX FOR DETAILS. WINDS AND SEAS WILL DIMINISH OVER THE OUTER WATERS BY EARLY MONDAY MORNING.

ALSO...THERE IS A SLIGHT CHANCE OF THUNDERSTORMS TONIGHT OVER THE COASTAL WATERS...WITH SMALL HAIL...BRIEF HEAVY RAIN...LOCALLY GUSTIER WINDS...AND WATERSPOUTS POSSIBLE.

&amp;&amp;

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&amp;&amp;

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...SMALL CRAFT ADVISORY FROM 5 PM THIS AFTERNOON TO 11 AM PDT SUNDAY FOR THE SAN DIEGO COUNTY COASTAL AREAS.

HIGH WIND WARNING FROM 3 PM THIS AFTERNOON TO 9 PM PDT SATURDAY FOR THE APPLE AND LUCERNE VALLEYS...COACHELLA VALLEY... RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS...SAN DIEGO COUNTY DESERTS...SAN DIEGO COUNTY MOUNTAINS.

WINTER WEATHER ADVISORY FROM 8 PM THIS EVENING TO 11 AM PDT SATURDAY FOR THE RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS.

BEACH HAZARDS STATEMENT FROM SATURDAY MORNING THROUGH LATE MONDAY NIGHT FOR THE ORANGE COUNTY COASTAL AREAS...SAN DIEGO COUNTY COASTAL AREAS.

PZ...SMALL CRAFT ADVISORY FROM 5 PM THIS AFTERNOON TO 11 AM PDT SUNDAY FOR THE COASTAL WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER AND OUT 30 NM...WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER EXTENDING 30 TO 60 NM OUT INCLUDING

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404251630>

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**Fig A-20:** The National Weather Service Area Forecast Discussion 0830 AM PST (0930 AM PDT) Friday, April 25, 2014 issued by the San Diego office describes the low-pressure trough moving through the region tonight

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404251630>



## FIGURE A-21 SAN DIEGO URGENT WEATHER MESSAGE APRIL 25, 2014

5/18/2018 IEM :: NPW from NWS SGX

358  
 WMUS76 KSGX 251746  
 NPWSGX

URGENT - WEATHER MESSAGE  
 NATIONAL WEATHER SERVICE SAN DIEGO CA  
 1046 AM PDT FRI APR 25 2014

...STRONG AND GUSTY WESTERLY WINDS IN THE MOUNTAINS AND DESERTS  
LATE TODAY THROUGH SATURDAY EVENING...

.A STRONG TROUGH OF LOW PRESSURE MOVING THROUGH SOUTHERN CALIFORNIA  
 WILL BRING STRONG AND GUSTY SOUTHWEST TO WEST WINDS TO THE MOUNTAINS  
 AND DESERTS THIS EVENING THROUGH SATURDAY EVENING. THE WINDS WILL  
 CONTINUE THROUGH TONIGHT AND SATURDAY BEFORE WEAKENING SATURDAY  
 EVENING.

CAZ055-056-058-060>062-260500-  
 /O.CON.KSGX.HW.W.0008.140425T2200Z-140427T0400Z/  
 SAN BERNARDINO COUNTY MOUNTAINS-RIVERSIDE COUNTY MOUNTAINS-  
 SAN DIEGO COUNTY MOUNTAINS-APPLE AND LUCERNE VALLEYS-  
 COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-  
 1046 AM PDT FRI APR 25 2014

...HIGH WIND WARNING REMAINS IN EFFECT FROM 3 PM THIS AFTERNOON  
TO 9 PM PDT SATURDAY...

\* WINDS...SOUTHWEST TO WEST WINDS 30 TO 40 MPH...GUSTING TO 65  
 MPH. WIND GUSTS OF 70 MPH OR GREATER ARE POSSIBLE IN THE MORE  
 WIND-PRONE AREAS.

\* TIMING...SOUTHWEST TO WEST WINDS INCREASING THIS  
 AFTERNOON...PEAKING TONIGHT. WINDS WILL TURN NORTHWEST EARLY  
 SATURDAY MORNING...THEN SLOWLY WEAKEN SATURDAY AFTERNOON AND  
 EVENING BEFORE DIMINISHING SATURDAY NIGHT.

\* LOCATION...STRONGEST SUSTAINED WINDS ALONG MOUNTAIN RIDGE TOPS  
 AND ON ADJACENT DESERT SLOPES. STRONG WIND GUSTS WILL SURFACE  
 OCCASIONALLY TO THE DESERT FLOOR.

\* VISIBILITY...REDUCED AT TIMES BY BLOWING SAND AND DUST IN THE  
DESERTS.

\* IMPACTS...THE WINDS WILL MAKE DRIVING DIFFICULT...ESPECIALLY  
 FOR MOTORISTS WITH HIGH PROFILE VEHICLES. TRAVEL MAY BE  
 IMPACTED ALONG 1-10 IN THE COACHELLA VALLEY AND I-8 THROUGH  
 THE SAN DIEGO COUNTY MOUNTAINS...AND ALONG STATE HIGHWAYS 18  
 AND 247 IN SAN BERNARDINO COUNTY. WATCH FOR BROKEN TREE LIMBS  
 AND OTHER DEBRIS ON ROADWAYS.

\* OUTLOOK...WINDS WILL BEGIN TO WEAKEN LATE SATURDAY  
 AFTERNOON...BUT REMAIN GUSTY THROUGH SUNDAY MORNING

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201404251746>

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**Fig A-21:** The National Weather Service Urgent Weather Message 0946 AM PST (1046 AM PDT) Friday, April 25, 2014 issued by the San Diego office for the San Diego Mountains and Coachella Valley-San Diego Deserts, effective Friday through Saturday  
<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404251746>

## FIGURE A-22

### PHOENIX AREA FORECAST DISCUSSION APRIL 25, 2014 – Pg1

5/21/2018

IEM :: AFD from NWS PSR

120  
FXUS65 KPSR 251803 AAA  
AFDPSR

AREA FORECAST DISCUSSION...UPDATED  
NATIONAL WEATHER SERVICE PHOENIX AZ  
1102 AM MST FRI APR 25 2014

.UPDATE...UPDATED AVIATION DISCUSSION...

&&

.SYNOPSIS...

AN APPROACHING PACIFIC STORM WILL LEAD TO INCREASING HIGH CLOUDS...  
AND BREEZY TO WINDY CONDITIONS TODAY. A POWERFUL COLD FRONT WILL  
FINALLY MOVE THROUGH THE REGION LATE FRIDAY NIGHT AND SATURDAY...  
PRODUCING STRONG WINDS...MUCH COOLER TEMPERATURES...AND A CHANCE OF  
SHOWERS IN SOUTH CENTRAL ARIZONA IN THE VICINITY OF PHOENIX.  
CLEARING SKIES WITH DIMINISHING WIND IS EXPECTED SATURDAY  
NIGHT...WITH DRY WEATHER AND A WARMING TREND SUNDAY THROUGH NEXT  
WEEK.

&&

.DISCUSSION...

DEEP PACIFIC TROUGH CENTERED NEAR THE PACIFIC COAST THIS WEEKEND.  
ASSOCIATED COLD FRONT OVER CALIFORNIA ENTERING L.A. BASIN THIS  
MORNING. BLENDED TPW IMAGERY SHOWS A CORRIDOR OF .8 TO 1.0 INCHES OF  
PWAT ALONG AND WEST OF THE CENTRAL CALIFORNIA COAST. LATEST MODEL  
DATA CONTINUES TO SHOW THE MAIN WINDOW OF OPPORTUNITY FOR PRECIP TO  
BE 12Z-18Z SATURDAY FOR OUR FORECAST AREA. A VARIETY OF OPINIONS  
CONTINUE AMONGST THE MODELS ON QPF THOUGH THERE IS GENERALLY GOOD  
AGREEMENT ON THE TEMPORAL AND SPATIAL PATTERN BETWEEN GFS/NAM/ECMWF.  
12Z NAM A BIT MORE GENEROUS THAN PREVIOUS RUNS. LOCAL HI-RES MODELS  
KEEP QPF CONFINED TO THE HIGHER TERRAIN THOUGH NCEP NMM AND ARW  
SPREAD SOME TO THE LOWER DESERTS. OVERALL...THERE IS GOOD AGREEMENT  
THAT THIS WONT BE A SIGNIFICANT PRECIP EVENT...ESPECIALLY FOR THE  
LOWER DESERTS. MODEL INSTABILITY FORECASTS FOR OUR FORECAST AREA  
REMAIN QUITE MEAGER BUT MENTION OF SLIGHT CHANCE FOR THUNDER REMAINS  
WARRANTED...MUCH BETTER CHANCE FOR NON-THUNDERSTORM PRECIP. WINDS  
WILL GET STRONG...MAINLY SOUTHEAST CALIFORNIA AND SOUTHWEST  
ARIZONA...BUT WILL BE TRICKY TO PIN DOWN SINCE STRONGEST FLOW IN THE  
LOW LEVELS IS OCCURRING OVERNIGHT. OVERALL...CURRENT FORECASTS LOOK  
TO BE ON TRACK. MORE LATER.

&&

.PREVIOUS DISCUSSION ISSUED 313 AM...

TODAY...

INCREASING SOUTHWESTERLY FLOW ALOFT IS EXPECTED TODAY AS A POWERFUL  
SPRING STORM BEGINS TO SPIN UP ALONG THE CENTRAL CA COAST BY THIS  
AFTERNOON. AS A RESULT...INCREASING SOUTH TO SOUTHWEST WINDS...  
CONSIDERABLE HIGH CLOUDS...AND SLIGHTLY WARMER AFTERNOON

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pi=AFDPSR&e=201404251802>

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## FIGURE A-22 PHOENIX AREA FORECAST DISCUSSION APRIL 25, 2014 – Pg2

5/21/2018

IEM :: AFD from NWS PSR

TUESDAY THROUGH FRIDAY...  
 DRY WEATHER WITH ABOVE NORMAL TEMPERATURES ARE FORECAST. THE ONLY  
 CAVEAT WILL BE GUSTY NORTH WINDS OVER THE FORECAST AREA...ESPECIALLY  
 DOWN THE COLORADO RIVER VALLEY TUESDAY AND WEDNESDAY.

&amp;&amp;

.AVIATION...  
 SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL...  
 WINDS WILL STEADILY INCREASE THROUGH THE AFTERNOON TODAY WITH GUSTY  
 WINDS TO 20-25 KTS EXPECTED BY MID AFTERNOON. ELEVATED WESTERLY  
 WINDS WILL REMAIN IN PLACE THROUGH THE OVERNIGHT HOURS AND THE USUAL  
 EASTERLY DRIFT IS NOT ANTICIPATED. TOMORROW IS A BIT MORE  
 CHALLENGING AS A FRONT WILL MOVE THROUGH THE PHOENIX AREA AROUND 15Z  
 OR SO. WINDS COULD BE EXTREMELY BREEZY COINCIDENT WITH THE FRONTAL  
 PASSAGE AND THERE COULD EVEN BE A FEW SHOWERS AROUND THE VALLEY TO  
 LOCALLY ENHANCE THE GRADIENT WINDS. WILL NEED TO PIN DOWN THE EXACT  
 TIMING AS THE FRONT DRAWS CLOSER.

SOUTHEAST CALIFORNIA/SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...  
 ELEVATED WINDS ALREADY BEGINNING ACROSS SOUTHEAST CALIFORNIA  
 AND SPEEDS WILL ONLY CONTINUE TO INCREASE FOR THE REST OF THE  
 AFTERNOON/EVENING HOURS. NOT EXPECTING MUCH IN THE WAY OF SHOWERS  
 WITH THIS EVENT BUT CERTAINLY A POSSIBILITY OF BLOWING SAND OR DUST.  
 WILL LEAVE BLDU IN BOTH TAFS. WINDS COULD BE PARTICULARLY STRONG  
 AROUND 12Z WITH THE FRONTAL PASSAGE...POSSIBLY GUSTING TO 45KTS FOR  
 A BRIEF TIME.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&amp;&amp;

.FIRE WEATHER...  
 SUNDAY THROUGH THURSDAY...  
 CONDITIONS WILL QUIET DOWN ON SUNDAY ALTHOUGH THERE COULD STILL BE  
 SOME BREEZINESS EAST OF PHOENIX SUNDAY AFTERNOON. LIGHT WINDS ARE  
 THEN EXPECTED THROUGH THE MIDDLE OF NEXT WEEK ALONG WITH INCREASING  
 TEMPERATURES AND DECREASING HUMIDITIES. OVERNIGHT RECOVERIES WILL BE  
 FAIR. GIVEN THE LIGHT WINDS...CRITICAL THRESHOLDS SHOULD NOT BE  
 REALIZED NEXT WEEK.

&amp;&amp;

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...WIND ADVISORY FROM MIDNIGHT TONIGHT TO NOON MST SATURDAY  
 AZZ020-021-025-026.

RED FLAG WARNING FROM NOON TODAY TO 8 PM MST THIS EVENING  
 AZZ020-025.

CA...WIND ADVISORY FROM MIDNIGHT TONIGHT TO NOON PDT SATURDAY

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404251802>

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**Fig A-22:** The National Weather Service Area Forecast Discussion 1002 AM PST (1102 AM MST) Friday, April 25, 2014 issued by the Phoenix office updated the aviation to include indicating elevated winds to continue the rest of the afternoon to evening hours  
<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404251802>

## FIGURE A-23

### SAN DIEGO AREA FORECAST DISCUSSION APRIL 25, 2014 – Pg1

5/18/2018

IEM :: AFD from NWS SGX

709  
FXUS66 KSGX 252022  
AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
122 PM PDT FRI APR 25 2014

#### SYNOPSIS...

A LOW PRESSURE TROUGH MOVING THROUGH THE REGION TONIGHT WILL BRING SCATTERED SHOWERS MOSTLY OVER AND WEST OF THE MOUNTAINS...WITH SMALL AMOUNTS OF SNOW IN THE HIGH MOUNTAINS. THE TROUGH WILL ALSO BRING STRONG AND GUSTY WINDS IN THE MOUNTAINS AND DESERTS. COOLER ON SATURDAY WITH STRONG WINDS CONTINUING IN THE DESERTS...AND BREEZY CONDITIONS IN THE COASTAL AREAS AND VALLEYS. AFTER A CHILLY START...IT WILL BE FAIR AND WARMER ON SUNDAY AS HIGH PRESSURE SLOWLY REBUILDS. DRY AND WARMER FOR THE WORKWEEK UNDER HIGH PRESSURE ALOFT...WITH LOCALLY GUSTY OFFSHORE WINDS AT TIMES.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

THIS AFTERNOON...SATELLITE IMAGERY SHOWS SCATTERED LOW CLOUDS OVER PORTIONS OF THE REGION WITH HIGH CLOUDS INCREASING FROM THE NW. RADAR SHOWS SOME LIGHT SHOWERS NORTH OF POINT CONCEPTION. INDIVIDUAL ELEMENTS ARE MOVING NE WHILE THE SYSTEM MOVES TO THE SOUTHEAST. LOW CLOUDS WILL INCREASE TONIGHT AS A COLD LOW PRESSURE TROUGH MOVES IN FROM THE NW.

MODELS REMAIN IN GOOD AGREEMENT REGARDING THE TIMING AND TRACK OF THE LOW PRESSURE TROUGH DEEPENING AND MOVING QUICKLY THROUGH THE REGION TONIGHT AND SAT MORNING. THE TROUGH WILL HAVE ENOUGH DEEP-LAYER MOISTURE...COLD AIR INSTABILITY AND DYNAMIC FORCING TO PRODUCE SCATTERED SHOWERS AND POSSIBLY TSTMS THIS EVENING INTO SAT MORNING. ALTHOUGH CONDITIONS FOR TSTMS WILL NOT BECOME FAVORABLE UNTIL TONIGHT WHEN THE COLDEST AIR MOVES IN ALOFT. MAINLY DUE TO THE RAPID MOVEMENT OF THE SYSTEM...PRCIP AMOUNTS WILL BE MOSTLY A FEW HUNDREDTHS TO ONE QUARTER INCH WEST OF THE MTNS AND LESS THAN ONE TENTH INCH IN THE DESERTS. THE GREATEST ACCUMULATIONS WILL BE ON THE COASTAL SLOPES WHERE STRONG OROGRAPHIC ENHANCEMENT WILL PRODUCE TOTALS OF UP TO THREE QUARTERS OF AN INCH.

THIS SYSTEM WILL BRING STRONG AND GUSTY SW TO W WINDS THIS AFTERNOON AND EVENING...BECOMING NW SAT MORNING. THE STRONGEST WINDS WILL BE IN THE MTNS AND ADJACENT DESERT AREAS WHERE SPEEDS OF 30 TO 40 MPH WITH GUSTS TO 65 MPH ARE EXPECTED. WIND GUSTS OF 70 MPH OR GREATER ARE POSSIBLE ON THE DESERT SLOPES OF THE MTNS WHERE MTN WAVES REACH THE SURFACE. AT LOW ELEVATIONS WEST OF THE MTNS...CONDITIONS WILL BE BREEZY WITH WIND SPEEDS OF 15 TO 20 MPH GUSTING TO 30 MPH IN SOME AREAS. WINDS WILL GRADUALLY WEAKEN SAT AFTERNOON THROUGH SUN MORNING.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404252022>

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**FIGURE A-23**  
**SAN DIEGO AREA FORECAST DISCUSSION APRIL 25, 2014 – Pg2**

5/18/2018

IEM :: AFD from NWS SGX

THE TROUGH WILL BRING COLD AIR FROM THE NRN PAC INTO  
SOCAL...RESULTING IN DAYTIME TEMPERATURES IN THE 50S AND 60S WEST OF  
THE MTNS AND 70S IN THE DESERTS. THESE TEMPS ARE WELL BELOW SEASONAL  
AVERAGES...ESPECIALLY FOR THE DESERTS.

BY LATE SAT...THE TROUGH WILL HAVE MOVED EAST PUTTING SOCAL UNDER  
DRY AND STABLE NW FLOW ALOFT. THIS WILL BRING FAIR WEATHER FOR  
SUN...BUT COOL AND BREEZY CONDITIONS WILL CONTINUE AT LEAST FOR THE  
EARLY PART OF SUN.

FOR MON THROUGH THE WORKWEEK...A RIDGE OF HIGH PRESSURE BUILDING IN FROM THE  
WEST WILL BRING FAIR AND MUCH WARMER WEATHER...WITH LITTLE OR NO  
MARINE LAYER PRESENCE. PERIODS OF LOCALLY GUSTY OFFSHORE WINDS WILL  
DEVELOP FOR TUE THROUGH THU AS A SFC HIGH MOVES INTO THE GREAT BASIN.

SURF...FORE-RUNNERS FROM A MODERATE VERY LONG-PERIOD SOUTH SWELL  
SHOULD BEGIN ARRIVING TODAY WITH PERIODS OF 22-23 SECONDS. THE SWELL  
WILL BUILD TONIGHT AND PEAK SATURDAY AFTERNOON THROUGH SUNDAY AT 4  
FT/17-19 SECONDS...LIKELY PRODUCING HIGH SURF OF 5-8 FEET WITH  
LOCALLY HIGHER SETS AND STRONG RIP CURRENTS ALONG THE ORANGE COUNTY  
BEACHES. THUS...A HIGH SURF ADVISORY HAS BEEN ISSUED FOR THE ORANGE  
COUNTY COAST. SAN DIEGO COUNTY WILL BE LESS FAVORED...DUE TO THE  
SOUTHERLY DIRECTION OF THE SWELL...BUT WILL STILL SEE ELEVATED  
SURF...STRONG RIP CURRENTS AND LONGSHORE CURRENTS. A BEACH HAZARDS  
STATEMENT REMAINS POSTED. THE SWELL WILL SLOWLY LOWER MONDAY THROUGH  
TUESDAY.

&amp;&amp;

.AVIATION...

252020Z...BKN STRATUS 10 SM INLAND IN SAN DIEGO COUNTY...WITH BASES  
AROUND 2500 FT MSL AND TOPS AROUND 3000-3500 FT MSL...WILL LIKELY  
CONTINUE THROUGH 26/0000 UTC. ELSEWHERE...UNRESTRICTED VIS...FEW-SCT  
CLDS 2500-3500 FT MSL AND FEW-SCT CLDS AOA 20000 FT MSL.

26/0000-1200 UTC...OVER AND W OR SW OF MTNS...INCREASING CLDS IN THE  
2000-11000 FT MSL LAYER...WITH INCREASING SHOWERS...AREAS OF VIS  
3-5SM...LOCAL VIS/CIGS AOB 2SM/1500 FT MSL IN HEAVIER  
SHOWERS...SLIGHT CHANCE OF THUNDERSTORMS WITH CB TOPS TO 25000 FT  
MSL WITH POSSIBLE SMALL HAIL/STRONG DOWNDRAFTS...AND MTN OBSCURATION  
OF COASTAL SLOPES. ELSEWHERE...INCREASING CLDS AOA 10000 FT MSL AND  
UNRESTRICTED VIS EXCEPT FOR AREAS OF BLOWING DUST IN THE DESERTS  
PRODUCING VIS AOB 2 SM.

WINDS...BY 26/0000 UTC...SW TO W WINDS OF 25 TO 35 KT...WITH GUSTS  
OF 40-55 KT OVER THE RIDGES...ALONG DESERT SLOPES...THROUGH  
PASSES/CANYONS AND INTO ADJACENT DESERT AREAS WILL RESULT IN STG-SVR  
UDDFS/LLWS/ROTORS OVER AND E OR NE OF THE MTNS. KSAN...SFC WIND  
GUSTS WILL LIKELY REACH 30 KT STARTING AROUND 26/0600 UTC AND  
CONTINUING THROUGH AT LEAST 26/1700 UTC. KTRM...CHANCE OF NW SFC  
WIND GUSTS OF 40-50 KT DURING THE 26/1000-1500 UTC TIME-FRAME.

&amp;&amp;

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404252022>

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## FIGURE A-23

### SAN DIEGO AREA FORECAST DISCUSSION APRIL 25, 2014 – Pg3

5/18/2018

IEM :: AFD from NWS SGX

.MARINE...

THIS AFTERNOON THROUGH SUNDAY...NORTHWESTERLY WIND GUSTS 25-30 KT WILL DEVELOP OVER THE COASTAL WATERS AS A STRONG TROUGH OF LOW PRESSURE MOVES THROUGH SOUTHERN CALIFORNIA. THERE MAY BE SOME LOCAL GUSTS TO 35 KT...BUT NOT WIDESPREAD OR PERSISTENT ENOUGH TO WARRANT A GALE WARNING ISSUANCE. IN ADDITION...THERE WILL BE A STEEP SHORT-PERIOD WEST-NORTHWEST SWELL AT AROUND 7-9 FEET. WINDS AND SEAS WILL CREATE CONDITIONS HAZARDOUS FOR SMALL CRAFT DURING THIS PERIOD. ALTHOUGH WINDS WILL DROP OFF OVER THE INNER WATERS ON SUNDAY MORNING...LOCAL WRF AND CANSAC WRF INDICATE STRONG WINDS CONTINUING OVER THE OUTER WATERS THROUGH SUNDAY EVENING. THUS...THE ADVISORY FOR THE OUTER WATERS CONTINUES THROUGH SUNDAY EVENING. THE SMALL CRAFT ADVISORY FOR BOTH THE INNER AND OUTER WATERS GOES INTO EFFECT EARLY THIS EVENING. SEE LAXMMWSGX FOR DETAILS. WINDS AND SEAS WILL DIMINISH OVER THE OUTER WATERS BY EARLY MONDAY MORNING.

ALSO...THERE IS A SLIGHT CHANCE OF THUNDERSTORMS TONIGHT OVER THE COASTAL WATERS...WITH SMALL HAIL...BRIEF HEAVY RAIN...LOCALLY GUSTIER WINDS...AND WATERSPOUTS POSSIBLE WITH ANY THUNDERSTORMS.

&amp;&amp;

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&amp;&amp;

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...HIGH WIND WARNING UNTIL 9 PM PDT SATURDAY FOR THE APPLE AND LUCERNE VALLEYS...COACHELLA VALLEY...RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS...SAN DIEGO COUNTY DESERTS...SAN DIEGO COUNTY MOUNTAINS.

WINTER WEATHER ADVISORY FROM 8 PM THIS EVENING TO 11 AM PDT SATURDAY FOR THE RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS.

HIGH SURF ADVISORY FROM 11 AM SATURDAY TO 10 PM PDT SUNDAY FOR THE BEACHES IN THE ORANGE COUNTY COASTAL AREAS.

BEACH HAZARDS STATEMENT FROM SATURDAY MORNING THROUGH LATE MONDAY NIGHT FOR THE SAN DIEGO COUNTY COASTAL AREAS.

PZ...SMALL CRAFT ADVISORY FROM 5 PM THIS AFTERNOON TO 11 PM PDT SUNDAY FOR THE WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER EXTENDING 30 TO 60 NM OUT INCLUDING SAN CLEMENTE ISLAND.

SMALL CRAFT ADVISORY FROM 5 PM THIS AFTERNOON TO 11 AM PDT SUNDAY FOR THE COASTAL WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER AND OUT 30 NM.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404252022>

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**Fig A-23:** The National Weather Service Area Forecast Discussion 1222 PM PST (0122 PM PDT) Friday, April 25, 2014 issued by the San Diego office describes the low-pressure trough moving through the region tonight

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404252022>

**FIGURE A-24**  
**PHOENIX URGENT WEATHER MESSAGE APRIL 25, 2014 – Pg1**

5/21/2018

IEM :: NPW from NWS PSR

r

821

WMUS75 KPSR 252132

NPWPSR

URGENT - WEATHER MESSAGE  
 NATIONAL WEATHER SERVICE PHOENIX AZ  
 232 PM MST FRI APR 25 2014

CAZ030-260930-

/O.EXB.KPSR.WI.Y.0005.140426T1200Z-140427T0300Z/

JOSHUA TREE NATIONAL PARK-

INCLUDING THE CITY OF...COTTONWOOD VISITOR CENTER

232 PM PDT FRI APR 25 2014

...WIND ADVISORY IN EFFECT FROM 5 AM TO 8 PM PDT SATURDAY...

THE NATIONAL WEATHER SERVICE IN PHOENIX HAS ISSUED A WIND  
 ADVISORY...WHICH IS IN EFFECT FROM 5 AM TO 8 PM PDT SATURDAY.

\* AFFECTED AREA...JOSHUA TREE NATIONAL PARK.

\* TIMING...FROM 5 AM SATURDAY UNTIL 8 PM SATURDAY. GUSTY WINDS COULD  
 BEGIN IN SOME PARTS OF THE PARK AS EARLY AS THIS EVENING.

\* WINDS...GUSTY WEST WINDS BETWEEN 25 AND 35 MPH...WITH  
 OCCASIONAL GUSTS TO 50 MPH ARE POSSIBLE.

\* IMPACTS...TRAVEL WILL BE DIFFICULT FOR HIGH PROFILE VEHICLES ON  
 NORTH-SOUTH ORIENTED ROADWAYS. PATCHY BLOWING DUST MAY ALSO  
 DEVELOP DUE TO THE HIGH WINDS WHICH COULD RESULT IN REDUCED  
 VISIBILITIES

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN  
 30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND  
 50 MPH. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY  
 FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT  
 AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER  
 A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA  
 CAUTION.

&amp;&amp;

\$\$

AZZ022&gt;024-027-028-260930-

/O.EXB.KPSR.WI.Y.0005.140426T1500Z-140427T0000Z/

NORTHWEST MARICOPA COUNTY-GREATER PHOENIX AREA-

SOUTHERN GILA COUNTY/TONTO NATIONAL FOREST FOOTHILLS-

SOUTHWEST MARICOPA COUNTY-

NORTHWEST AND NORTH CENTRAL PINAL COUNTY-

INCLUDING THE CITIES OF...BUCKEYE...NEW RIVER...WICKENBURG...

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pi=NPWPSR&e=201404252132>

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## FIGURE A-24

### PHOENIX URGENT WEATHER MESSAGE APRIL 25, 2014 – Pg2

5/21/2018

IEM :: NPW from NWS PSR

MESA...PHOENIX...GLOBE...MIAMI...SAN CARLOS...SUPERIOR...  
 TOP-OF-THE-WORLD...GILA BEND...APACHE JUNCTION...CASA GRANDE...  
 FLORENCE  
 232 PM MST FRI APR 25 2014

...WIND ADVISORY IN EFFECT FROM 8 AM TO 5 PM MST SATURDAY...

THE NATIONAL WEATHER SERVICE IN PHOENIX HAS ISSUED A WIND  
 ADVISORY...WHICH IS IN EFFECT FROM 8 AM TO 5 PM MST SATURDAY.

\* AFFECTED AREA...THE PHOENIX METRO AREA...THE OPEN DESERTS OF  
 SOUTHWEST ARIZONA...SOUTHERN GILA COUNTY.

\* TIMING...FROM 8 AM SATURDAY UNTIL 5 PM SATURDAY.

\* WINDS...GUSTY WEST WINDS BETWEEN 25 AND 35 MPH...WITH  
 OCCASIONAL GUSTS TO 40 MPH ARE POSSIBLE.

\* IMPACTS...TRAVEL WILL BE DIFFICULT FOR HIGH PROFILE VEHICLES ON  
 NORTH-SOUTH ORIENTED ROADWAYS. MOTORISTS ON INTERSTATES 8 AND 10  
 WILL ALSO EXPERIENCE HIGH WINDS. PATCHY BLOWING DUST MAY ALSO  
 DEVELOP DUE TO THE HIGH WINDS WHICH COULD RESULT IN REDUCED  
 VISIBILITIES ACROSS THE DESERTS.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN  
 30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND  
 50 MPH. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY  
 FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT  
 AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER  
 A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA  
 CAUTION.

&&

\$\$

AZZ020-025-CAZ031>033-260930-  
 /O.EXT.KPSR.WI.Y.0005.140426T1200Z-140427T0300Z/  
 LOWER COLORADO RIVER VALLEY AZ-YUMA/MARTINEZ LAKE AND VICINITY-  
 LOWER COLORADO RIVER VALLEY CA-RIVERSIDE COUNTY/EASTERN DESERTS-  
 IMPERIAL COUNTY-  
 INCLUDING THE CITIES OF...EHRENBURG...PARKER...  
 FORTUNA FOOTHILLS...YUMA...BLYTHE...CHIRIACO SUMMIT...  
 DESERT CENTER...BRAWLEY...CALEXICO...EL CENTRO  
 232 PM MST FRI APR 25 2014 /232 PM PDT FRI APR 25 2014/

...WIND ADVISORY NOW IN EFFECT FROM 5 AM MST /5 AM PDT/ TO 8 PM  
 MST /8 PM PDT/ SATURDAY...

THE WIND ADVISORY IS NOW IN EFFECT FROM 5 AM MST /5 AM PDT/ TO  
 8 PM MST /8 PM PDT/ SATURDAY.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pi=NPWPSR&e=201404252132>

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## FIGURE A-24

### PHOENIX URGENT WEATHER MESSAGE APRIL 25, 2014 – Pg3

5/21/2018

IEM :: NPW from NWS PSR

\* AFFECTED AREA...SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA...INCLUDING EL CENTRO...YUMA...BLYTHE.

\* TIMING...FROM 5 AM SATURDAY UNTIL 8 PM SATURDAY.

\* WINDS...GUSTY WEST WINDS BETWEEN 25 AND 35 MPH...WITH OCCASIONAL GUSTS TO 50 MPH ARE POSSIBLE.

\* IMPACTS...TRAVEL WILL BE DIFFICULT FOR HIGH PROFILE VEHICLES ON NORTH-SOUTH ORIENTED ROADWAYS. MOTORISTS ON INTERSTATES 8 AND 10 WILL ALSO EXPERIENCE HIGH WINDS. PATCHY BLOWING DUST MAY ALSO DEVELOP DUE TO THE HIGH WINDS WHICH COULD RESULT IN REDUCED VISIBILITIES

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN 30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND 50 MPH. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA CAUTION.

&&

\$\$

AZZ021-026-260930-  
/O.EXT.KPSR.WI.Y.0005.140426T1500Z-140427T0000Z/  
WEST CENTRAL DESERTS-SOUTHWEST DESERTS-  
INCLUDING THE CITIES OF...QUARTZSITE...SALOME...TACNA...WELLTON  
232 PM MST FRI APR 25 2014

...WIND ADVISORY NOW IN EFFECT FROM 8 AM TO 5 PM MST SATURDAY...

THE WIND ADVISORY IS NOW IN EFFECT FROM 8 AM TO 5 PM MST SATURDAY.

\* AFFECTED AREA...THE DESERTS OF SOUTHWEST ARIZONA INCLUDING QUARTZSITE AND TACNA

\* TIMING...FROM 8 AM SATURDAY UNTIL 5 PM SATURDAY.

\* WINDS...GUSTY WEST WINDS BETWEEN 25 AND 35 MPH...WITH OCCASIONAL GUSTS TO 45 MPH ARE POSSIBLE.

\* IMPACTS...TRAVEL WILL BE DIFFICULT FOR HIGH PROFILE VEHICLES ON NORTH-SOUTH ORIENTED ROADWAYS. MOTORISTS ON INTERSTATES 8 AND 10 WILL ALSO EXPERIENCE HIGH WINDS. PATCHY BLOWING DUST MAY ALSO DEVELOP DUE TO THE HIGH WINDS WHICH COULD RESULT IN REDUCED VISIBILITIES

PRECAUTIONARY/PREPAREDNESS ACTIONS...

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201404252132>

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**Fig A-24:** The National Weather Service Urgent Weather Message 0132 PM PST (0232 PM MST) Friday, April 25, 2014 issued by the Phoenix office for the Yuma and Imperial County areas effective through Saturday afternoon

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404252132>

# **FIGURE A-25** **PHOENIX HAZARDOUS WEATHER OUTLOOK APRIL 25, 2014 – Pg1**

5/21/2018

IEM :: HWO from NWS PSR

r  
 625  
 FLUS45 KPSR 252134 AAA  
 HWOPSR

HAZARDOUS WEATHER OUTLOOK...UPDATED  
 NATIONAL WEATHER SERVICE PHOENIX AZ  
 234 PM MST FRI APR 25 2014

AZZ020-025-CAZ031-261400-  
 LOWER COLORADO RIVER VALLEY AZ-YUMA/MARTINEZ LAKE AND VICINITY-  
 LOWER COLORADO RIVER VALLEY CA-  
 234 PM MST FRI APR 25 2014 /234 PM PDT FRI APR 25 2014/

...RED FLAG WARNING IN EFFECT UNTIL 8 PM MST /8 PM PDT/ THIS  
 EVENING...

...WIND ADVISORY IN EFFECT FROM 5 AM MST /5 AM PDT/ TO 8 PM MST  
 /8 PM PDT/ SATURDAY...

THIS HAZARDOUS WEATHER OUTLOOK IS FOR EXTREME SOUTHWEST  
 ARIZONA...EXTREME WEST-CENTRAL ARIZONA AND EXTREME SOUTHEAST  
 CALIFORNIA.

.DAY ONE...THIS AFTERNOON AND TONIGHT.

PLEASE LISTEN TO NOAA WEATHER RADIO OR GO TO WEATHER.GOV ON THE  
 INTERNET FOR MORE INFORMATION ABOUT THE FOLLOWING HAZARDS.

RED FLAG WARNING THROUGH EARLY EVENING.  
 WIND ADVISORY LATE TONIGHT/EARLY SATURDAY MORNING.

.DAYS TWO THROUGH SEVEN...SATURDAY THROUGH THURSDAY.

PLEASE LISTEN TO NOAA WEATHER RADIO OR GO TO WEATHER.GOV ON THE  
 INTERNET FOR MORE INFORMATION ABOUT THE FOLLOWING HAZARDS.

WIND ADVISORY.

IN ADDITION TO THE WINDS...REDUCED VISIBILITIES ARE POSSIBLE AT TIMES DUE  
 TO BLOWING DUST AND SAND SATURDAY MORNING INTO THE AFTERNOON HOURS.

.SPOTTER INFORMATION STATEMENT...

SPOTTER ACTIVATION IS NOT EXPECTED AT THIS TIME.

\$\$

CAZ030-032-033-261400-  
 JOSHUA TREE NATIONAL PARK-RIVERSIDE COUNTY/EASTERN DESERTS-  
 IMPERIAL COUNTY-  
 234 PM PDT FRI APR 25 2014

...WIND ADVISORY IN EFFECT FROM 5 AM TO 8 PM PDT SATURDAY...

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=HWOPSR&e=201404252134>

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## FIGURE A-25

### PHOENIX HAZARDOUS WEATHER OUTLOOK APRIL 25, 2014 – Pg2

5/21/2018

IEM :: HWO from NWS PSR

THIS HAZARDOUS WEATHER OUTLOOK IS FOR EXTREME SOUTHEAST CALIFORNIA  
AND SOUTHEAST CALIFORNIA.

.DAY ONE...THIS AFTERNOON AND TONIGHT.

PLEASE LISTEN TO NOAA WEATHER RADIO OR GO TO WEATHER.GOV ON THE  
INTERNET FOR MORE INFORMATION ABOUT THE FOLLOWING HAZARDS.

WIND ADVISORY LATE TONIGHT/EARLY SATURDAY MORNING.

.DAYS TWO THROUGH SEVEN...SATURDAY THROUGH THURSDAY.

PLEASE LISTEN TO NOAA WEATHER RADIO OR GO TO WEATHER.GOV ON THE  
INTERNET FOR MORE INFORMATION ABOUT THE FOLLOWING HAZARDS.

WIND ADVISORY.

IN ADDITION TO THE WINDS...REDUCED VISIBILITIES ARE POSSIBLE AT TIMES DUE  
TO BLOWING DUST AND SAND SATURDAY MORNING INTO THE AFTERNOON HOURS.

.SPOTTER INFORMATION STATEMENT...

SPOTTER ACTIVATION IS NOT EXPECTED AT THIS TIME.

\$\$

AZZ021>024-026>028-261400-

WEST CENTRAL DESERTS-NORTHWEST MARICOPA COUNTY-GREATER PHOENIX AREA-  
SOUTHERN GILA COUNTY/TONTO NATIONAL FOREST FOOTHILLS-  
SOUTHWEST DESERTS-SOUTHWEST MARICOPA COUNTY-  
NORTHWEST AND NORTH CENTRAL PINAL COUNTY-  
234 PM MST FRI APR 25 2014

...WIND ADVISORY IN EFFECT FROM 8 AM TO 5 PM MST SATURDAY...

THIS HAZARDOUS WEATHER OUTLOOK IS FOR EAST-CENTRAL ARIZONA...SOUTH-  
CENTRAL ARIZONA...SOUTHWEST ARIZONA AND WEST-CENTRAL ARIZONA.

.DAY ONE...THIS AFTERNOON AND TONIGHT.

NO WEATHER HAZARDS ARE EXPECTED.

.DAYS TWO THROUGH SEVEN...SATURDAY THROUGH THURSDAY.

PLEASE LISTEN TO NOAA WEATHER RADIO OR GO TO WEATHER.GOV ON THE  
INTERNET FOR MORE INFORMATION ABOUT THE FOLLOWING HAZARDS.

WIND ADVISORY.

IN ADDITION TO THE WINDS...REDUCED VISIBILITIES ARE POSSIBLE AT TIMES DUE  
TO BLOWING DUST AND SAND SATURDAY MORNING INTO THE AFTERNOON HOURS. A  
CHANCE OF SHOWERS AND THUNDERSTORMS ARE ALSO FORECAST. THUNDERSTORM  
HAZARDS INCLUDE STRONG GUSTS AND DEADLY LIGHTNING.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=HWOPSR&e=201404252134>

3/5

**Fig A-25:** The National Weather Service Hazardous Weather Outlook 0134 PM PST (0234 PM MST) Friday, April 25, 2014 issued by the Phoenix office for extreme Southeast California, Imperial County and Joshua Tree.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404252140>



## FIGURE A-26 PHOENIX URGENT WEATHER MESSAGE APRIL 25, 2014

5/21/2018 IEM :: NPW from NWS PSR

468  
 WWUS75 KPSR 252140  
 NPWPSR

URGENT - WEATHER MESSAGE  
 NATIONAL WEATHER SERVICE PHOENIX AZ  
 240 PM MST FRI APR 25 2014

AZZ020-025-CAZ030>033-261400-  
 /O.CON.KPSR.WI.Y.0005.140426T1200Z-140427T0300Z/  
 LOWER COLORADO RIVER VALLEY AZ-YUMA/MARTINEZ LAKE AND VICINITY-  
 JOSHUA TREE NATIONAL PARK-LOWER COLORADO RIVER VALLEY CA-  
 RIVERSIDE COUNTY/EASTERN DESERTS-IMPERIAL COUNTY-  
 INCLUDING THE CITIES OF...EHRENBERG...PARKER...  
 FORTUNA FOOTHILLS...YUMA...COTTONWOOD VISITOR CENTER...BLYTHE...  
 CHIRIACO SUMMIT...DESERT CENTER...BRAWLEY...CALEXICO...EL CENTRO  
 240 PM MST FRI APR 25 2014 /240 PM PDT FRI APR 25 2014/

...WIND ADVISORY REMAINS IN EFFECT FROM 5 AM MST /5 AM PDT/ TO  
 8 PM MST /8 PM PDT/ SATURDAY...

A WIND ADVISORY REMAINS IN EFFECT FROM 5 AM MST /5 AM PDT/ TO  
 8 PM MST /8 PM PDT/ SATURDAY.

\* AFFECTED AREA...SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA...  
 INCLUDING EL CENTRO...YUMA...BLYTHE...JOSHUA TREE NATIONAL PARK.

\* TIMING...FROM 5 AM SATURDAY UNTIL 8 PM SATURDAY.

\* WINDS...GUSTY WEST WINDS BETWEEN 25 AND 35 MPH...WITH  
 OCCASIONAL GUSTS TO 50 MPH ARE POSSIBLE.

\* IMPACTS...TRAVEL WILL BE DIFFICULT FOR HIGH PROFILE VEHICLES  
 ON NORTH-SOUTH ORIENTED ROADWAYS. MOTORISTS ON INTERSTATES 8  
 AND 10 WILL ALSO EXPERIENCE HIGH WINDS. PATCHY BLOWING DUST  
 MAY ALSO DEVELOP DUE TO THE HIGH WINDS WHICH COULD RESULT IN  
 REDUCED VISIBILITIES

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN  
 30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND  
 50 MPH. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY  
 FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT  
 AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER  
 A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA  
 CAUTION.

&&  
 \$\$

AZZ021>024-026>028-261400-  
<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201404252140>

2/4

**Fig A-26:** The National Weather Service Urgent Weather Message 0140 PM PST (0240 PM MST) Friday, April 25, 2014 issued by the Phoenix office for Riverside, Imperial and Yuma Counties effective through Saturday night

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404252140>

**FIGURE A-27**  
**PHOENIX AREA FORECAST DISCUSSION APRIL 25, 2014 – Pg1**

5/21/2018

IEM :: AFD from NWS PSR

7  
996  
FXUS65 KPSR 252208  
AFDPSR

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE PHOENIX AZ  
310 PM MST FRI APR 25 2014

**.SYNOPSIS...**

BREEZY TO WINDY CONDITIONS CAN BE EXPECTED TONIGHT WITH EVEN STRONGER WINDS SATURDAY AS A COLD FRONT SWEEPS ACROSS THE REGION. AREAS OF BLOWING DUST CAN BE EXPECTED AT TIMES...ESPECIALLY SATURDAY. THE SYSTEM WILL ALSO BRING MUCH COOLER TEMPERATURES AS WELL AS A CHANCE OF SHOWERS STARTING LATE TONIGHT AND CONTINUING SATURDAY MORNING BEFORE TAPERING OFF FROM WEST TO EAST IN THE AFTERNOON. RAIN CHANCES WILL BE BETTER EAST OF THE LOWER COLORADO RIVER VALLEY. A SLIGHT CHANCE OF THUNDERSTORMS IS ANTICIPATED AS WELL FOR PORTIONS OF SOUTH-CENTRAL ARIZONA. EXPECT DRY WEATHER AND A WARMING TREND SUNDAY THROUGH NEXT WEEK.

&&

**.DISCUSSION...**

REST OF TODAY THROUGH SATURDAY NIGHT...  
COLD FRONT ASSOCIATED WITH AN UPPER TROUGH IS SLOWLY MOVING ACROSS SOUTHERN AND CENTRAL CALIFORNIA. MODELS INDICATE THE FRONTAL ZONE PASSING ACROSS SOUTHEAST CALIFORNIA LATER THIS EVENING AND REACHING THE PHOENIX AREA BETWEEN 12-15Z. IN ADDITION TO THE FRONTAL LIFT...THERE WILL BE A GOOD BATCH OF Q FORCING MOVING WEST TO EAST IN A BAND BETWEEN 06Z SAT - 00Z SUN. BEST WINDOW OF OPPORTUNITY FOR PRECIP ON THE LOWER DESERTS LOOKS TO BE 12Z-18Z...FOR THE HIGHER TERRAIN EAST OF PHOENIX PROBABLY 15Z-21Z. PRECIP AMOUNTS...IF ANY...WILL BE QUITE MODEST. MODEL INSTABILITY FORECASTS FOR OUR FORECAST AREA REMAIN QUITE MEAGER BUT MENTION OF SLIGHT CHANCE FOR THUNDER REMAINS WARRANTED...MUCH BETTER CHANCE FOR NON-THUNDERSTORM PRECIP. HOWEVER...IF ANY CONVECTION DOES DEVELOP THE STRONG SHEAR COULD PROVIDE SOME ADDED POTENCY. BREEZY TO WINDY CONDITIONS CAN BE EXPECTED THE REST OF THIS AFTERNOON AND TONIGHT...MAINLY SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA...THOUGH THERE WILL BE LULLS. ANTICIPATE STRONG WINDS TO AFFECT THE WHOLE FORECAST AREA DURING THE DAY SATURDAY...LINGERING OVER SOUTHEAST CALIFORNIA SATURDAY EVENING. SIGNIFICANT CHANGES WERE MADE TO THE WIND ADVISORY...PRIMARILY TO HAVE A LATER START AND TO EXPAND IT IN AREA TO COVER SOUTH-CENTRAL ARIZONA...INCLUDING PHOENIX METRO. AS ALWAYS...WITH THE STRONGER WINDS COMES BLOWING DUST POTENTIAL.

**SUNDAY AND MONDAY...**

DRY NORTHWEST FLOW ALOFT WITH A STRONG ATMOSPHERIC SUBSIDENCE FIELD SHOULD STABILIZE THE ATMOSPHERE FOR DRY WEATHER SUNDAY AND MONDAY. CONTINUED BELOW NORMAL TEMPERATURES ARE FORECAST FOR SUNDAY...WITH A STRONG WARM-UP MONDAY TO NEAR SEASONAL NORMALS.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404252210>

2/5

## FIGURE A-27 PHOENIX AREA FORECAST DISCUSSION APRIL 25, 2014 – Pg2

5/21/2018

IEM :: AFD from NWS PSR

TUESDAY THROUGH FRIDAY...

DRY WEATHER WITH ABOVE NORMAL TEMPERATURES ARE FORECAST. THE ONLY CAVEAT WILL BE GUSTY NORTH WINDS OVER THE FORECAST AREA...ESPECIALLY DOWN THE COLORADO RIVER VALLEY TUESDAY AND WEDNESDAY.

&amp;&amp;

.AVIATION...

SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL... WINDS WILL STEADILY INCREASE THROUGH THE AFTERNOON TODAY WITH GUSTY WINDS TO 20-25 KTS EXPECTED BY MID AFTERNOON. ELEVATED WESTERLY WINDS WILL REMAIN IN PLACE THROUGH THE OVERNIGHT HOURS AND THE USUAL EASTERLY DRIFT IS NOT ANTICIPATED. TOMORROW IS A BIT MORE CHALLENGING AS A FRONT WILL MOVE THROUGH THE PHOENIX AREA AROUND 15Z OR SO. WINDS COULD BE EXTREMELY BREEZY COINCIDENT WITH THE FRONTAL PASSAGE AND THERE COULD EVEN BE A FEW SHOWERS AROUND THE VALLEY TO LOCALLY ENHANCE THE GRADIENT WINDS. WILL NEED TO PIN DOWN THE EXACT TIMING AS THE FRONT DRAWS CLOSER.

SOUTHEAST CALIFORNIA/SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH... ELEVATED WINDS ALREADY BEGINNING ACROSS SOUTHEAST CALIFORNIA AND SPEEDS WILL ONLY CONTINUE TO INCREASE FOR THE REST OF THE AFTERNOON/EVENING HOURS. NOT EXPECTING MUCH IN THE WAY OF SHOWERS WITH THIS EVENT BUT CERTAINLY A POSSIBILITY OF BLOWING SAND OR DUST. WILL LEAVE BLDU IN BOTH TAFS. WINDS COULD BE PARTICULARLY STRONG AROUND 12Z WITH THE FRONTAL PASSAGE...POSSIBLY GUSTING TO 45KTS FOR A BRIEF TIME.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&amp;&amp;

.FIRE WEATHER...

MONDAY THROUGH FRIDAY...

HIGH PRESSURE WILL SETTLE OVER THE AREA NEXT WEEK BUT WINDS WILL INCREASE DOWN THE COLORADO RIVER ON MONDAY AND TUESDAY. THERE'S A POSSIBILITY THAT SOME SPOTS ALONG THE RIVER COULD REACH CRITICAL THRESHOLDS BUT NOT CONFIDENT ENOUGH TO INCLUDE ANY HEADLINES IN THE FORECAST THAT FAR IN ADVANCE. COULD ALSO BE LOOKING AT SOME DOWNSLOPE WINDS EAST OF PHOENIX AS WELL BUT WILL NEED TO REFINE THAT AS WE GET CLOSER. OTHER THAN THAT...WEDNESDAY THROUGH THE END OF THE WEEK LOOKS QUIET. DRY AFTERNOONS WITH FAIR OVERNIGHT RECOVERIES.

&amp;&amp;

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...RED FLAG WARNING UNTIL 8 PM MST THIS EVENING AZZ020-025

WIND ADVISORY 5 AM TO 8 PM MST SATURDAY AZZ020-025

WIND ADVISORY FROM 8 AM TO 5 PM MST SATURDAY AZZ021&gt;024-026-028.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404252210>

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**Fig A-27:** The National Weather Service Area Forecast Discussion 0210 PM PST (0310 PM MST) Friday, April 25, 2014 issued by the Phoenix office described breezy to windy conditions expected for the evening with stronger winds on Saturday  
<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404252210>

## FIGURE A-28

### SAN DIEGO URGENT WEATHER MESSAGE APRIL 25, 2014 – Pg1

5/18/2018

IEM :: NPW from NWS SGX

┌  
511  
WWUS76 KSGX 260319  
NPWSGX

URGENT - WEATHER MESSAGE  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
819 PM PDT FRI APR 25 2014

...STRONG AND GUSTY WESTERLY WINDS IN THE MOUNTAINS AND DESERTS  
LATE TODAY THROUGH SATURDAY EVENING...

.A STRONG TROUGH OF LOW PRESSURE MOVING THROUGH SOUTHERN  
CALIFORNIA WILL BRING STRONG AND GUSTY SOUTHWEST TO WEST WINDS TO  
THROUGH SATURDAY EVENING...STRONGEST IN THE MOUNTAINS AND DESERTS. THE  
WINDS WILL GRADUALLY WEAKEN SATURDAY EVENING WITH BREEZY  
CONDITIONS CONTINUING INTO SUNDAY MORNING.

CAZ055-056-058-060>062-261300-  
/O.CON.KSGX.HW.W.0008.000000T0000Z-140427T0400Z/  
SAN BERNARDINO COUNTY MOUNTAINS-RIVERSIDE COUNTY MOUNTAINS-  
SAN DIEGO COUNTY MOUNTAINS-APPLE AND LUCERNE VALLEYS-  
COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-  
819 PM PDT FRI APR 25 2014

...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 9 PM PDT SATURDAY...

- \* WINDS...SOUTHWEST TO WEST WINDS 30 TO 40 MPH...GUSTING TO 65  
MPH. WIND GUSTS OF 70 MPH OR GREATER ARE POSSIBLE IN THE WIND-  
PRONE AREAS.
- \* TIMING...SOUTHWEST TO WEST WINDS INCREASING THIS EVENING AND  
PEAKING TONIGHT. WINDS WILL TURN WEST-NORTHWEST SATURDAY  
MORNING...THEN SLOWLY WEAKEN SATURDAY AFTERNOON AND EVENING  
BEFORE DIMINISHING LATE SATURDAY NIGHT.
- \* LOCATION...STRONGEST SUSTAINED WINDS ALONG MOUNTAIN RIDGE TOPS  
AND ON ADJACENT DESERT SLOPES. STRONG WIND GUSTS WILL SURFACE  
OCCASIONALLY ON THE DESERT FLOOR.

\* VISIBILITY...REDUCED AT TIMES BY BLOWING SAND AND DUST IN THE  
DESERTS.

\* IMPACTS...THE WINDS WILL MAKE DRIVING DIFFICULT...ESPECIALLY  
FOR MOTORISTS WITH HIGH PROFILE VEHICLES. TRAVEL MAY BE  
IMPACTED ALONG 1-10 IN THE COACHELLA VALLEY AND I-8 THROUGH  
THE SAN DIEGO COUNTY MOUNTAINS...AND ALONG STATE HIGHWAYS 18  
AND 247 IN SAN BERNARDINO COUNTY. WATCH FOR BROKEN TREE LIMBS  
AND OTHER DEBRIS ON ROADWAYS.

- \* REPORTS...PEAK WIND GUSTS SO FAR...  
SKY VALLEY...73 MPH AT 738 PM FRI  
VOLCAN MOUNTAIN...66 MPH AT 740 PM FRI  
HARRISON PARK...58 MPH AT 740 PM FRI

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pi=NPWSGX&e=201404260319>

2/4

## FIGURE A-28

### SAN DIEGO URGENT WEATHER MESSAGE APRIL 25, 2014 – Pg2

5/18/2018

IEM :: NPW from NWS SGX

WHITewater...50 MPH AT 550 PM FRI  
BORREGO SPRINGS...50 MPH AT 653 PM FRI

\* OUTLOOK...WINDS WILL BEGIN TO WEAKEN LATE SATURDAY AFTERNOON...  
BUT REMAIN GUSTY THROUGH SUNDAY MORNING.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A HIGH WIND WARNING MEANS A HAZARDOUS HIGH WIND EVENT IS EXPECTED  
OR OCCURRING. SUSTAINED WIND SPEEDS OF AT LEAST 40 MPH OR GUSTS  
OF 58 MPH OR MORE CAN LEAD TO PROPERTY DAMAGE.

&&

\$\$

CAZ042-043-048-050-057-261300-  
/O.NEW.KSGX.WI.Y.0034.140426T0700Z-140427T0400Z/  
ORANGE COUNTY COASTAL AREAS-SAN DIEGO COUNTY COASTAL AREAS-  
SAN BERNARDINO AND RIVERSIDE COUNTY VALLEYS-THE INLAND EMPIRE-  
SAN DIEGO COUNTY VALLEYS-SANTA ANA MOUNTAINS AND FOOTHILLS-  
819 PM PDT FRI APR 25 2014

...WIND ADVISORY IN EFFECT FROM MIDNIGHT TONIGHT TO 9 PM PDT  
SATURDAY...

THE NATIONAL WEATHER SERVICE IN SAN DIEGO HAS ISSUED A WIND  
ADVISORY...WHICH IS IN EFFECT FROM MIDNIGHT TONIGHT TO 9 PM PDT  
SATURDAY.

\* WINDS...WEST TO NORTHWEST WINDS 15 TO 20 MPH WITH GUSTS 30 TO 40  
MPH IN THE COASTAL AREAS AND VALLEYS. GUSTS TO 45 MPH IN THE  
SANTA ANA MOUNTAINS.

\* TIMING...TONIGHT THROUGH SATURDAY EVENING...STRONGEST LATE  
TONIGHT INTO EARLY SATURDAY MORNING.

\* LOCATION...COASTS...VALLEYS...AND SANTA ANA MOUNTAINS. STRONGEST  
WINDS ALONG THE IMMEDIATE COAST.

\* IMPACTS...THE WINDS WILL MAKE DRIVING DIFFICULT...ESPECIALLY FOR  
MOTORISTS WITH HIGH PROFILE VEHICLES. WATCH FOR BROKEN TREE  
LIMBS AND OTHER DEBRIS ON ROADWAYS.

\* OUTLOOK...WINDS WILL WEAKEN SLIGHTLY SATURDAY AFTERNOON BEFORE  
DIMINISHING SATURDAY NIGHT.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT WINDS OF 35 MPH ARE EXPECTED. WINDS  
THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH  
PROFILE VEHICLES. USE EXTRA CAUTION.

&&

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201404260319>

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**Fig A-28:** The National Weather Service Urgent Weather Message 0719 PM PST (0819 PM PDT) Friday, April 25, 2014 issued by the San Diego office for the San Diego Mountains and Coachella Valley-San Diego Deserts, effective Friday through Saturday  
<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404260319>



## FIGURE A-29

### PHOENIX AREA FORECAST DISCUSSION APRIL 25, 2014 – Pg1

5/21/2018

IEM :: AFD from NWS PSR

r  
229  
FXUS65 KPSR 260410  
AFDPSR

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE PHOENIX AZ  
910 PM MST FRI APR 25 2014

#### .SYNOPSIS...

BREEZY TO WINDY CONDITIONS CAN BE EXPECTED TONIGHT WITH EVEN STRONGER WINDS SATURDAY AS A COLD FRONT SWEEPS ACROSS THE REGION. AREAS OF BLOWING DUST CAN BE EXPECTED AT TIMES...ESPECIALLY SATURDAY. THE SYSTEM WILL ALSO BRING MUCH COOLER TEMPERATURES AS WELL AS A CHANCE OF SHOWERS STARTING LATE TONIGHT AND CONTINUING SATURDAY MORNING BEFORE TAPERING OFF FROM WEST TO EAST IN THE AFTERNOON. RAIN CHANCES WILL BE BETTER EAST OF THE LOWER COLORADO RIVER VALLEY. A SLIGHT CHANCE OF THUNDERSTORMS IS ANTICIPATED AS WELL FOR PORTIONS OF SOUTH-CENTRAL ARIZONA. EXPECT DRY WEATHER AND A WARMING TREND SUNDAY THROUGH NEXT WEEK.

&&

#### .DISCUSSION...

STRONG UPPER LEVEL LOW PRESSURE SYSTEM CONTINUED TO MOVE INLAND INTO CALIFORNIA THIS EVENING...WITH THE MAIN LOW CENTER STARTING TO DEVELOP ACROSS CENTRAL CA. 50-90M H5 HEIGHT FALLS WERE NOTED ACROSS SRN NV AND SERN CA PER THE 00Z PLOT DATA. STRONG LOW/MID LEVEL SWLY FLOW ALOFT WAS SEEN AHEAD OF THE APPROACHING LOW IN THE PLOT AND SOUNDING DATA...AND THIS LED TO GUSTY SOUTHWEST WINDS ACROSS MUCH OF THE CWA EARLIER IN THE AFTERNOON...PERSISTING INTO THE EARLY EVENING. SURFACE GRADIENT HAS TIGHTENED SUBSTANTIALLY ACROSS SERN CA THIS EVENING AND GUSTY SW WINDS IN EXCESS OF 40 MPH HAVE BEEN NOTED ACROSS PORTIONS OF IMPERIAL COUNTY. SPOTTER IN SEELEY REPORTED PEAK GUST TO NEAR 44 MPH AT 830 PM. GUSTY WINDS IN EXCESS OF 35 MPH HAVE BEEN SEEN OFF AND ON AT EL CENTRO AND IMPERIAL...LOWERING VSBYS TO 2 MILES IN BLOWING DUST/SAND. COLD FRONT WILL BE PUSHING EAST ACROSS THE SERN CA DESERTS AFTER MIDNIGHT...APPROACHING THE LOWER CO RIVER VALLEY BY 12Z OR SO. ALTHOUGH WE DO NOT EXPECT MUCH IN TERMS OF

PRECIP OUT WEST TONIGHT...THERE WILL LIKELY BE AT LEAST A FEW SHOWERS BREAKING OUT ACROSS THE AREA AS THE FRONT MOVES THRU. OTHERWISE FOR THE AZ DESERTS EXPECT MOSTLY MID/HI CLOUDS REST OF TONIGHT WITH SOME LOWERING OF THE CEILINGS/CLOUD BASES AFTER MIDNIGHT AS STRONG LOW/MID LEVEL LIFT DEVELOPS IN ADVANCE OF THE STRONG WEATHER SYSTEM. FORECASTS LOOK TO BE IN PRETTY GOOD SHAPE AND ONLY MINOR COSMETIC UPDATES HAVE BEEN NEEDED. DID MAKE ONE CHANGE...ADDED A WIND ADVISORY FOR CAZ033 FOR THE REST OT TONIGHT GIVEN THE STRONG GUSTY WINDS SEEN AT IMPERIAL COUNTY. EXPECT GUSTY WINDS TO PERSIST REST OF TONIGHT...AND THIS IS SUPPORTED BY LATEST MOS GUIDANCE NUMBERS

#### .PREVIOUS DISCUSSION...

REST OF TODAY THROUGH SATURDAY NIGHT...

COLD FRONT ASSOCIATED WITH AN UPPER TROUGH IS SLOWLY MOVING ACROSS

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404260410>

2/5

## FIGURE A-29 PHOENIX AREA FORECAST DISCUSSION APRIL 25, 2014 – Pg2

5/21/2018

IEM :: AFD from NWS PSR

SOUTHERN AND CENTRAL CALIFORNIA. MODELS INDICATE THE FRONTAL ZONE PASSING ACROSS SOUTHEAST CALIFORNIA LATER THIS EVENING AND REACHING THE PHOENIX AREA BETWEEN 12-15Z. IN ADDITION TO THE FRONTAL LIFT...THERE WILL BE A GOOD BATCH OF Q FORCING MOVING WEST TO EAST IN A BAND BETWEEN 06Z SAT - 00Z SUN. BEST WINDOW OF OPPORTUNITY FOR PRECIP ON THE LOWER DESERTS LOOKS TO BE 12Z-18Z...FOR THE HIGHER TERRAIN EAST OF PHOENIX PROBABLY 15Z-21Z. PRECIP AMOUNTS...IF ANY...WILL BE QUITE MODEST. MODEL INSTABILITY FORECASTS FOR OUR FORECAST AREA REMAIN QUITE MEAGER BUT MENTION OF SLIGHT CHANCE FOR THUNDER REMAINS WARRANTED...MUCH BETTER CHANCE FOR NON-THUNDERSTORM PRECIP. HOWEVER...IF ANY CONVECTION DOES DEVELOP THE STRONG SHEAR COULD PROVIDE SOME ADDED POTENCY. BREEZY TO WINDY CONDITIONS CAN BE EXPECTED THE REST OF THIS AFTERNOON AND TONIGHT...MAINLY SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA...THOUGH THERE WILL BE LULLS. ANTICIPATE STRONG WINDS TO AFFECT THE WHOLE FORECAST AREA DURING THE DAY SATURDAY...LINGERING OVER SOUTHEAST CALIFORNIA SATURDAY EVENING. SIGNIFICANT CHANGES WERE MADE TO THE WIND ADVISORY...PRIMARILY TO HAVE A LATER START AND TO EXPAND IT IN AREA TO COVER SOUTH-CENTRAL ARIZONA...INCLUDING PHOENIX METRO. AS ALWAYS...WITH THE STRONGER WINDS COMES BLOWING DUST POTENTIAL.

SUNDAY AND MONDAY...

DRY NORTHWEST FLOW ALOFT WITH A STRONG ATMOSPHERIC SUBSIDENCE FIELD SHOULD STABILIZE THE ATMOSPHERE FOR DRY WEATHER SUNDAY AND MONDAY. CONTINUED BELOW NORMAL TEMPERATURES ARE FORECAST FOR SUNDAY...WITH A STRONG WARM-UP MONDAY TO NEAR SEASONAL NORMALS.

TUESDAY THROUGH FRIDAY...

DRY WEATHER WITH ABOVE NORMAL TEMPERATURES ARE FORECAST. THE ONLY CAVEAT WILL BE GUSTY NORTH WINDS OVER THE FORECAST AREA...ESPECIALLY DOWN THE COLORADO RIVER VALLEY TUESDAY AND WEDNESDAY.

&&

.AVIATION...

SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL...ELEVATED WESTERLY WINDS WILL REMAIN IN PLACE THROUGH THE OVERNIGHT HOURS AND THE USUAL EASTERLY DRIFT IS NOT ANTICIPATED. TOMORROW IS A BIT MORE CHALLENGING AS A FRONT WILL MOVE THROUGH THE PHOENIX AREA AROUND 15Z OR SO. WINDS COULD BE EXTREMELY BREEZY COINCIDENT WITH THE FRONTAL PASSAGE AND THERE COULD EVEN BE A FEW SHOWERS AROUND THE VALLEY TO LOCALLY ENHANCE THE GRADIENT WINDS. WILL NEED TO PIN DOWN THE EXACT TIMING AS THE FRONT DRAWS CLOSER. FOR KPHX...IT IS POSSIBLE THAT WINDS MAY BRIEFLY BACK AND SWING TO THE SOUTHEAST AHEAD OF THE FRONTAL PASSAGE AFTER 10Z OR SO...WITH SPEEDS APPROACHING 15KT. WILL NOT MENTION THIS IN THE TAF ATTM DUE TO LOWER CONFIDENCE...BUT IT NEEDS TO BE WATCHED. ALSO...EXPECT CIGS IN THE GREATER PHOENIX AREA TO LOWER TO AROUND 4-5K FEET AT TIMES BOTH WITH THE FRONTAL PASSAGE...AND LATER INTO THE AFTERNOON HOURS SATURDAY. EXPECT CIGS AT KPHX TO STAY GENLY AOA 6K FEET HOWEVER.

SOUTHEAST CALIFORNIA/SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...ELEVATED WINDS ACROSS SOUTHEAST CALIFORNIA WILL PERSIST

<https://mesonet.agron.iastate.edu/wx/afo/p.php?pl=AFDPSR&e=201404260410>

3/5

## FIGURE A-29 PHOENIX AREA FORECAST DISCUSSION APRIL 25, 2014 – Pg3

5/21/2018

IEM :: AFD from NWS PSR

THROUGH THE EVENING AND INTO THE MORNING HOURS SATURDAY...WITH PEAK GUSTS IN EXCESS OF 30KT AT TIMES. NOT EXPECTING MUCH IN THE WAY OF SHOWERS WITH THIS EVENT BUT CERTAINLY A POSSIBILITY OF BLOWING SAND OR DUST. WILL LEAVE BLDU IN BOTH TAFS. WINDS COULD BE PARTICULARLY STRONG AROUND 12Z WITH THE FRONTAL PASSAGE...POSSIBLY GUSTING TO 45KTS FOR A BRIEF TIME. THREAT FOR PRECIP SHOULD BE OVER FROM THE CO RIVER WESTWARD BY MID MORNING OR SO...WITH CLEARING SKIES EXPECTED BY LATE SAT MORNING. STILL EXPECT GUSTY SOUTHWEST/WEST WINDS MOST OF THE DAY SATURDAY...WITH PEAK GUSTS TO 40KT OR SO POSSIBLE.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.FIRE WEATHER...

MONDAY THROUGH FRIDAY...

HIGH PRESSURE WILL SETTLE OVER THE AREA NEXT WEEK BUT WINDS WILL INCREASE DOWN THE COLORADO RIVER ON MONDAY AND TUESDAY. THERE'S A POSSIBILITY THAT SOME SPOTS ALONG THE RIVER COULD REACH CRITICAL THRESHOLDS BUT NOT CONFIDENT ENOUGH TO INCLUDE ANY HEADLINES IN THE FORECAST THAT FAR IN ADVANCE. COULD ALSO BE LOOKING AT SOME DOWNSLOPE WINDS EAST OF PHOENIX AS WELL BUT WILL NEED TO REFINE THAT AS WE GET CLOSER. OTHER THAN THAT...WEDNESDAY THROUGH THE END OF THE WEEK LOOKS QUIET. DRY AFTERNOONS WITH FAIR OVERNIGHT RECOVERIES.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...WIND ADVISORY 5 AM TO 8 PM MST SATURDAY AZZ020-025

WIND ADVISORY FROM 8 AM TO 5 PM MST SATURDAY AZZ021>024-026-028.

CA...WIND ADVISORY 9 PM UNTIL 5 AM TONIGHT CAZ033.

WIND ADVISORY FROM 5 AM TO 8 PM PDT SATURDAY CAZ030>033.

&&

\$\$

VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...CB

PREVIOUS DISCUSSION...AJ/VASQUEZ

AVIATION...CB/LEINS

FIRE WEATHER...LEINS

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404260410>

4/5

**Fig A-29:** The National Weather Service Area Forecast Discussion 0810 PM PST (0910 PM MST) Friday, April 25, 2014 issued by the Phoenix office described a strong upper level low pressure system moving inland into California during the evening  
<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404260410>

**FIGURE A-30**  
**PHOENIX URGENT WEATHER MESSAGE APRIL 25, 2014 – Pg1**

5/21/2018

IEM :: NPW from NWS PSR

7  
 938  
 WMUS75 KPSR 260414  
 NPWPSR

URGENT - WEATHER MESSAGE  
 NATIONAL WEATHER SERVICE PHOENIX AZ  
 914 PM MST FRI APR 25 2014

CAZ033-261300-  
 /O.EXT.KPSR.WI.Y.0005.140426T0414Z-140427T0300Z/  
 IMPERIAL COUNTY-  
 INCLUDING THE CITIES OF...BRAWLEY...CALEXICO...EL CENTRO  
 914 PM PDT FRI APR 25 2014

...WIND ADVISORY NOW IN EFFECT UNTIL 8 PM PDT SATURDAY...

THE WIND ADVISORY IS NOW IN EFFECT UNTIL 8 PM PDT SATURDAY.

\* AFFECTED AREA...IMPERIAL COUNTY...INCLUDING EL CENTRO...AND IMPERIAL.

\* TIMING...UNTIL 8 PM SATURDAY.

\* WINDS...GUSTY WEST WINDS BETWEEN 25 AND 35 MPH...WITH OCCASIONAL  
 GUSTS TO 50 MPH ARE POSSIBLE. STRONGEST WIND GUSTS LIKELY TO OCCUR  
 AFTER 5 AM OR SO...AND INTO THE AFTERNOON HOURS SATURDAY.

\* IMPACTS...TRAVEL WILL BE DIFFICULT FOR HIGH PROFILE VEHICLES  
 ON NORTH-SOUTH ORIENTED ROADWAYS. MOTORISTS ON INTERSTATES 8  
 AND 10 WILL ALSO EXPERIENCE HIGH WINDS. PATCHY BLOWING DUST  
 MAY ALSO DEVELOP DUE TO THE HIGH WINDS WHICH COULD RESULT IN  
 REDUCED VISIBILITIES

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN  
 30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND  
 50 MPH. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY  
 FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT  
 AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER  
 A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA  
 CAUTION.

&&

\$\$

AZZ020-025-CAZ030>032-261300-  
 /O.CON.KPSR.WI.Y.0005.140426T1200Z-140427T0300Z/  
 LOWER COLORADO RIVER VALLEY AZ-YUMA/MARTINEZ LAKE AND VICINITY-  
 JOSHUA TREE NATIONAL PARK-LOWER COLORADO RIVER VALLEY CA-  
 RIVERSIDE COUNTY/EASTERN DESERTS-  
 INCLUDING THE CITIES OF...EHRENBERG...PARKER...  
 FORTUNA FOOTHILLS...YUMA...COTTONWOOD VISITOR CENTER...BLYTHE...

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201404260414>

2/5

### FIGURE A-30 PHOENIX URGENT WEATHER MESSAGE APRIL 25, 2014 – Pg2

5/21/2018

IEM :: NPW from NWS PSR

CHIRIACO SUMMIT...DESERT CENTER  
914 PM MST FRI APR 25 2014 /914 PM PDT FRI APR 25 2014/

...WIND ADVISORY REMAINS IN EFFECT FROM 5 AM MST /5 AM PDT/ TO  
8 PM MST /8 PM PDT/ SATURDAY...

A WIND ADVISORY REMAINS IN EFFECT FROM 5 AM MST /5 AM PDT/ TO  
8 PM MST /8 PM PDT/ SATURDAY.

\* AFFECTED AREA...SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA...  
INCLUDING YUMA...BLYTHE...JOSHUA TREE NATIONAL PARK.

\* TIMING...FROM 5 AM SATURDAY UNTIL 8 PM SATURDAY.

\* WINDS...GUSTY WEST WINDS BETWEEN 25 AND 35 MPH...WITH  
OCCASIONAL GUSTS TO 50 MPH ARE POSSIBLE.

\* IMPACTS...TRAVEL WILL BE DIFFICULT FOR HIGH PROFILE VEHICLES  
ON NORTH-SOUTH ORIENTED ROADWAYS. MOTORISTS ON INTERSTATES 8  
AND 10 WILL ALSO EXPERIENCE HIGH WINDS. PATCHY BLOWING DUST  
MAY ALSO DEVELOP DUE TO THE HIGH WINDS WHICH COULD RESULT IN  
REDUCED VISIBILITIES

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN  
30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND  
50 MPH. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY  
FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT  
AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER  
A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA  
CAUTION.

&&

\$\$

AZZ021>024-026>028-261300-  
/O.CON.KPSR.WI.Y.0005.140426T1500Z-140427T0000Z/  
WEST CENTRAL DESERTS-NORTHWEST MARICOPA COUNTY-  
GREATER PHOENIX AREA-  
SOUTHERN GILA COUNTY/TONTO NATIONAL FOREST FOOTHILLS-  
SOUTHWEST DESERTS-SOUTHWEST MARICOPA COUNTY-  
NORTHWEST AND NORTH CENTRAL PINAL COUNTY-  
INCLUDING THE CITIES OF...QUARTZSITE...SALOME...BUCKEYE...  
NEW RIVER...WICKENBURG...MESA...PHOENIX...GLOBE...MIAMI...  
SAN CARLOS...SUPERIOR...TOP-OF-THE-WORLD...TACNA...WELLTON...  
GILA BEND...APACHE JUNCTION...CASA GRANDE...FLORENCE  
914 PM MST FRI APR 25 2014

...WIND ADVISORY REMAINS IN EFFECT FROM 8 AM TO 5 PM MST  
SATURDAY...

A WIND ADVISORY REMAINS IN EFFECT FROM 8 AM TO 5 PM MST SATURDAY.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201404260414>

3/5

**Fig A-30:** The National Weather Service Urgent Weather Message 0814 PM PST (0914 PM MST) Friday, April 25, 2014 issued by the Phoenix office for Imperial County, Riverside County and Arizona effective through Saturday

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404252140>



# **FIGURE A-31** **SAN DIEGO AREA FORECAST DISCUSSION APRIL 25, 2014 – Pg1**

5/18/2018

IEM :: AFD from NWS SGX

r  
 834  
 FXUS66 KSGX 260427  
 AFDSGX

AREA FORECAST DISCUSSION  
 NATIONAL WEATHER SERVICE SAN DIEGO CA  
 930 PM PDT FRI APR 25 2014

## **.SYNOPSIS...**

A LOW PRESSURE TROUGH MOVING THROUGH THE REGION TONIGHT WILL BRING  
 SCATTERED SHOWERS AND STRONG AND GUSTY WINDS IN THE MOUNTAINS AND  
 DESERTS. COOLER ON SATURDAY WITH STRONG WINDS CONTINUING IN THE  
 DESERTS...AND BREEZY CONDITIONS IN THE COASTAL AREAS AND VALLEYS.  
 FAIR AND WARMER ON SUNDAY AS HIGH PRESSURE SLOWLY REBUILDS. DRY AND  
 MUCH WARMER FOR THE WORK WEEK UNDER HIGH PRESSURE ALOFT...WITH  
 LOCALLY GUSTY OFFSHORE WINDS AT TIMES.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE...  
 SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO  
 COUNTIES...

ISOLATED SHOWERS WERE DEVELOPING OVER THE AREA THIS EVENING. SO FAR  
 A COUPLE LOCATIONS IN THE SAN BERNARDINO MOUNTAINS AND ORANGE COUNTY  
 HAVE PICKED UP ONE-HUNDREDTH OF AN INCH...ELSEWHERE ONLY TRACE  
 AMOUNTS FELL. MORE WIDESPREAD LIGHT TO LOCALLY MODERATE SHOWERS ARE  
 CURRENTLY MOVING THROUGH VENTURA AND SANTA BARBARA COUNTIES. THESE  
 BANDS OF SHOWERS WILL MOVE OVER FAR SW CALIFORNIA LATER TONIGHT AS  
 THE UPPER LEVEL LOW PRESSURE SYSTEM DIGS SOUTH AND QUICKLY MOVES  
 EASTWARD.

FORECAST FOR THIS LATE-SEASON STORM REMAINS ON TRACK. MAIN IMPACT  
 FROM THIS SYSTEM WILL BE THE WINDS. WIND GUSTS HAVE ALREADY REACHED  
 AROUND 55-65 MPH IN THE MOUNTAINS AND DESERTS...WITH THE  
 OVER-ACHIEVER SKY VALLEY CLOCKING IN AT 73 MPH. WINDS WILL CONTINUE  
 TO INCREASE OVERNIGHT ACROSS THE REGION. EVEN AREAS WEST OF THE  
 MOUNTAINS WILL BE QUITE BREEZY LATE TONIGHT INTO SATURDAY AFTERNOON  
 WITH GUSTS AROUND 30-40 MPH. A WIND ADVISORY HAS BEEN ISSUED FOR THE  
 COASTAL AREAS...VALLEYS...AND SANTA ANA MOUNTAINS. WINDS WILL  
 GRADUALLY WEAKEN SATURDAY EVENING...THOUGH BREEZY CONDITIONS WILL  
 PREVAIL IN THE MTNS AND DESERTS INTO EARLY SUNDAY MORNING.

NO MAJOR CHANGES TO FORECAST PRECIP TOTALS. STILL LOOKING AT  
 GENERALLY LESS THAN ONE-QUARTER INCH WEST OF THE  
 MOUNTAINS...ONE-THIRD TO THREE-QUARTERS INCH IN THE MOUNTAINS...AND  
 LESS THAN ONE-TENTH INCH IN THE DESERTS. STRONG LOW-LEVEL WINDS WILL  
 AID OROGRAPHIC ENHANCEMENT...WITH LOCAL AMOUNTS NEAR ONE-INCH ALONG  
 THE WEST FACING COASTAL MOUNTAIN SLOPES. THE SNOW LEVEL IS CURRENTLY  
 AROUND 6500 FT AND WILL DROP TO 4500-5500 FT BY SATURDAY MORNING. A  
 LIGHT DUSTING IS EXPECTED AROUND 5000 FT ELEVATION...1 TO 3 INCHES  
 ABOVE 6000 FT...AND UP TO 4 INCHES ABOVE 7500 FT. LAST ITEM OF  
 INTEREST ON THE PRECIPITATION FRONT IS THE SLIGHT CHANCE OF

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pi=AFDSGX&e=201404260430>

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## FIGURE A-31 SAN DIEGO AREA FORECAST DISCUSSION APRIL 25, 2014 – Pg2

5/18/2018

IEM :: AFD from NWS SGX

THUNDERSTORMS TONIGHT INTO SAT MORNING. THE -25 TO -27C 500 MB COLD CORE OF THE LOW AND BEST INSTABILITY WILL PASS OVER SAN BERNARDINO COUNTY. SMALL HAIL AND LOCALLY HEAVY RAIN IS POSSIBLE SHOULD ANY THUNDERSTORMS DEVELOP. PRECIP WILL TAPER OFF SATURDAY MORNING...THOUGH A FEW SHOWERS MAY LINGER OVER THE RIVERSIDE AND SAN DIEGO COUNTY MOUNTAINS INTO THE AFTERNOON. OTHERWISE SATURDAY WILL BE BREEZY AND COOL WITH TEMPS AROUND 15 TO 25 DEGREES BELOW NORMAL.

DRY AND STABLE NW FLOW ALOFT WILL DEVELOP SUNDAY FOR FAIR AND SLIGHTLY WARMER WEATHER. FOR MON THROUGH THE WORK WEEK...A RIDGE OF HIGH PRESSURE BUILDING IN FROM THE WEST WILL BRING FAIR AND MUCH WARMER WEATHER...WITH LITTLE OR NO MARINE LAYER PRESENCE. HIGHS WILL CLIMB INTO THE 80S AND 90S WEST OF THE MTNS AND IN THE DESERTS TUE AND WED...AND INTO THE MID 60S TO MID 70S IN THE MTNS. PERIODS OF LOCALLY GUSTY OFFSHORE WINDS WILL DEVELOP FOR TUE THROUGH THU AS A SFC HIGH MOVES INTO THE GREAT BASIN.

SURF...FORE-RUNNERS FROM A MODERATE VERY LONG-PERIOD SOUTH SWELL SHOULD BEGIN ARRIVING TODAY WITH PERIODS OF 22-23 SECONDS. THE SWELL WILL BUILD TONIGHT AND PEAK SATURDAY AFTERNOON THROUGH SUNDAY AT 4 FT/17-19 SECONDS...LIKELY PRODUCING HIGH SURF OF 5-8 FEET WITH LOCALLY HIGHER SETS AND STRONG RIP CURRENTS ALONG THE ORANGE COUNTY BEACHES. THUS...A HIGH SURF ADVISORY HAS BEEN ISSUED FOR THE ORANGE COUNTY COAST. SAN DIEGO COUNTY WILL BE LESS FAVORED...DUE TO THE SOUTHERLY DIRECTION OF THE SWELL...BUT WILL STILL SEE ELEVATED SURF...STRONG RIP CURRENTS AND LONGSHORE CURRENTS. A BEACH HAZARDS STATEMENT REMAINS POSTED. THE SWELL WILL SLOWLY LOWER MONDAY THROUGH TUESDAY.

&amp;&amp;

.AVIATION...

260430Z...COAST/VALLEYS...WIDESPREAD BKN-OVC CONDITIONS WILL OCCUR TONIGHT THROUGH 16Z SAT WITH BASES MOSTLY 2000-3000 FT MSL...LAYERED TO 12000 FT MSL WITH HIGHER TERRAIN OBSCURED. LOCAL CIGS TO 1000 FT MSL WILL OCCUR. AREAS OF SHRA WILL LOCALLY LOWER VIS TO 3-5 MI. MOSTLY SCT-BKN CONDITIONS WITH BASES 2500-3500 FT MSL WILL OCCUR AFTER 16Z SAT INTO SAT EVENING. SFC WINDS FROM THE W-SW 15-25 KT WITH GUSTS TO 35 KT WILL OCCUR TONIGHT AND SAT...WITH HIGHEST WINDS ALONG THE IMMEDIATE COAST AND OVER HIGHER TERRAIN.

MTNS/DESERTS...COASTAL SLOPES AND RIDGES WILL BE OBSCURED THROUGH 16Z SAT IN CLOUDS/FOG/SHOWERS...WITH SNOW ABOVE 5000-5500 FT MSL. CLOUDS WILL BE LAYERED TO 14000 FT MSL WITH HIGH CLOUDS ABOVE 20000 FT MSL. STRONG GUSTY SFC WINDS FROM THE W 20-35 KT WITH LOCAL GUSTS OVER 50 KT WILL OCCUR...ESPECIALLY RIDGES/DESERT SLOPES/THROUGH AND EAST OF PASSES TONIGHT AND SAT. SCT-BKN CONDITIONS WILL OCCUR AFTER 16Z SAT WITH ISOLATED SHOWERS...AND LOCAL TERRAIN OBSCURATIONS.

&amp;&amp;

.MARINE...

TONIGHT THROUGH SUNDAY...NORTHWESTERLY WIND GUSTS 25-30 KT WILL DEVELOP OVER THE COASTAL WATERS AS A STRONG TROUGH OF LOW PRESSURE

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pi=AFDSGX&e=201404260430>

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## FIGURE A-31

### SAN DIEGO AREA FORECAST DISCUSSION APRIL 25, 2014 – Pg3

5/18/2018

IEM :: AFD from NWS SGX

MOVES THROUGH SOUTHERN CALIFORNIA. THERE MAY BE SOME LOCAL GUSTS TO 35 KT...BUT NOT WIDESPREAD OR PERSISTENT ENOUGH TO WARRANT A GALE WARNING ISSUANCE. THERE WILL BE A STEEP SHORT-PERIOD WEST-NORTHWEST SWELL AT AROUND 7-9 FEET. WINDS AND SEAS WILL CREATE CONDITIONS HAZARDOUS FOR SMALL CRAFT, ALTHOUGH WINDS WILL DROP OFF OVER THE INNER WATERS ON SUNDAY MORNING...STRONG WINDS WILL CONTINUE OVER THE OUTER WATERS THROUGH SUNDAY EVENING. SMALL CRAFT ADVISORY IS IN EFFECT THROUGH 11 AM SUNDAY IN THE INNER WATERS AND 11 PM SUNDAY IN THE OUTER WATERS. SEE LAXMMMSGX FOR DETAILS. WINDS AND SEAS WILL DIMINISH OVER THE OUTER WATERS BY EARLY MONDAY MORNING.

ALSO...THERE IS A SLIGHT CHANCE OF THUNDERSTORMS TONIGHT OVER THE COASTAL WATERS...WITH SMALL HAIL...BRIEF HEAVY RAIN...LOCALLY STRONGER WINDS...WITH AN ISOLATED WATERSPOUT POSSIBLE WITH ANY THUNDERSTORMS.

&amp;&amp;

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&amp;&amp;

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...HIGH WIND WARNING UNTIL 9 PM PDT SATURDAY FOR THE APPLE AND LUCERNE VALLEYS...COACHELLA VALLEY...RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS...SAN DIEGO COUNTY DESERTS...SAN DIEGO COUNTY MOUNTAINS.

WINTER WEATHER ADVISORY UNTIL 11 AM PDT SATURDAY FOR THE RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS.

WIND ADVISORY FROM MIDNIGHT TONIGHT TO 9 PM PDT SATURDAY FOR THE ORANGE COUNTY COASTAL AREAS...SAN BERNARDINO AND RIVERSIDE COUNTY VALLEYS-THE INLAND EMPIRE...SAN DIEGO COUNTY COASTAL AREAS...SAN DIEGO COUNTY VALLEYS...SANTA ANA MOUNTAINS AND FOOTHILLS.

HIGH SURF ADVISORY FROM 11 AM SATURDAY TO 10 PM PDT SUNDAY FOR THE BEACHES IN THE ORANGE COUNTY COASTAL AREAS.

BEACH HAZARDS STATEMENT FROM SATURDAY MORNING THROUGH LATE MONDAY NIGHT FOR THE SAN DIEGO COUNTY COASTAL AREAS.

PZ...SMALL CRAFT ADVISORY UNTIL 11 PM PDT SUNDAY FOR THE WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER EXTENDING 30 TO 60 NM OUT INCLUDING SAN CLEMENTE ISLAND.

SMALL CRAFT ADVISORY UNTIL 11 AM PDT SUNDAY FOR THE COASTAL WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER AND OUT 30 NM.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404260430>

4/8

**Fig A-31:** The National Weather Service Area Forecast Discussion 0830 PM PST (0930 PM PDT) Friday, April 25, 2014 issued by the San Diego office describes isolated showers over the area and the inland movement of the upper level low pressure system  
<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404260430>

**FIGURE A-32**  
**PHOENIX HAZARDOUS WEATHER OUTLOOK APRIL 25, 2014 – Pg1**

5/21/2018

IEM :: HWO from NWS PSR

↑  
 800  
 FLUS45 KPSR 260430  
 HWOPSR

HAZARDOUS WEATHER OUTLOOK  
 NATIONAL WEATHER SERVICE PHOENIX AZ  
 930 PM MST FRI APR 25 2014

AZZ020-025-CAZ031-261300-  
 LOWER COLORADO RIVER VALLEY AZ-YUMA/MARTINEZ LAKE AND VICINITY-  
 LOWER COLORADO RIVER VALLEY CA-  
 930 PM MST FRI APR 25 2014 /930 PM PDT FRI APR 25 2014/

...WIND ADVISORY IN EFFECT FROM 5 AM MST /5 AM PDT/ TO 8 PM MST  
 /8 PM PDT/ SATURDAY...

THIS HAZARDOUS WEATHER OUTLOOK IS FOR EXTREME SOUTHWEST  
 ARIZONA...EXTREME WEST-CENTRAL ARIZONA AND EXTREME SOUTHEAST  
 CALIFORNIA.

.DAY ONE...TONIGHT.

GUSTY SOUTHWEST WINDS ARE EXPECTED WITH PEAK GUSTS IN EXCESS OF 30  
 MPH POSSIBLE. WINDS MAY LEAD TO AREAS OF BLOWING DUST AND  
 SAND...BRIEFLY LOWERING VISIBILITIES BELOW 2 MILES.

.DAYS TWO THROUGH SEVEN...SATURDAY THROUGH THURSDAY.

PLEASE LISTEN TO NOAA WEATHER RADIO OR GO TO WEATHER.GOV ON THE  
 INTERNET FOR MORE INFORMATION ABOUT THE FOLLOWING HAZARDS.

WIND ADVISORY.

IN ADDITION TO THE WINDS...REDUCED VISIBILITIES ARE POSSIBLE AT TIMES  
 DUE TO BLOWING DUST AND SAND SATURDAY MORNING INTO THE AFTERNOON HOURS.

.SPOTTER INFORMATION STATEMENT...

SPOTTER ACTIVATION IS NOT EXPECTED AT THIS TIME.

\$\$

CAZ030-032-261300-  
 JOSHUA TREE NATIONAL PARK-RIVERSIDE COUNTY/EASTERN DESERTS-  
 930 PM PDT FRI APR 25 2014

...WIND ADVISORY IN EFFECT FROM 5 AM TO 8 PM PDT SATURDAY...

THIS HAZARDOUS WEATHER OUTLOOK IS FOR EXTREME SOUTHEAST CALIFORNIA  
 AND SOUTHEAST CALIFORNIA.

.DAY ONE...TONIGHT.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=HWOPSR&e=201404260430>

2/5

**FIGURE A-32**  
**PHOENIX HAZARDOUS WEATHER OUTLOOK APRIL 25, 2014 – Pg2**

5/21/2018

IEM :: HWO from NWS PSR

CAZ033-261300-  
 IMPERIAL COUNTY-  
 930 PM PDT FRI APR 25 2014

...WIND ADVISORY IN EFFECT UNTIL 8 PM PDT SATURDAY...

THIS HAZARDOUS WEATHER OUTLOOK IS FOR EXTREME SOUTHEAST CALIFORNIA.

.DAY ONE...TONIGHT.

PLEASE LISTEN TO NOAA WEATHER RADIO OR GO TO WEATHER.GOV ON THE INTERNET FOR MORE INFORMATION ABOUT THE FOLLOWING HAZARDS.

WIND ADVISORY.

GUSTY SOUTHWEST TO WEST WINDS ARE EXPECTED TONIGHT...WITH PEAK GUSTS IN EXCESS OF 40 MPH POSSIBLE. WINDS WILL LEAD TO AREAS OF BLOWING DUST AND SAND...OCCASIONALLY LOWERING VISIBILITY BELOW 2 MILES.

.DAYS TWO THROUGH SEVEN...SATURDAY THROUGH THURSDAY.

PLEASE LISTEN TO NOAA WEATHER RADIO OR GO TO WEATHER.GOV ON THE INTERNET FOR MORE INFORMATION ABOUT THE FOLLOWING HAZARDS.

WIND ADVISORY.

IN ADDITION TO THE WINDS...REDUCED VISIBILITIES ARE POSSIBLE AT TIMES DUE TO BLOWING DUST AND SAND SATURDAY MORNING INTO THE AFTERNOON HOURS.

.SPOTTER INFORMATION STATEMENT...

SPOTTER ACTIVATION IS NOT EXPECTED AT THIS TIME.

\$\$

NATIONAL WEATHER SERVICE PHOENIX IS ON THE INTERNET AT

WEATHER.GOV/PHOENIX

**IOWA STATE  
 UNIVERSITY**

College of Ag  
 Department of Agronomy

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=HWOPSR&e=201404260430>

4/5

**Fig A-32:** The National Weather Service Hazardous Weather Outlook 0830 PM PST (0930 PM MST) Friday, April 25, 2014 issued by the Phoenix office for Imperial and Riverside Counties, and Arizona. Note the reduced visibility due to blowing dust  
<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=HWOPSR&e=201404260430>



# **FIGURE A-33** **PHOENIX URGENT WEATHER MESSAGE APRIL 26, 2014 – Pg1**

5/21/2018

IEM :: NPW from NWS PSR

617  
 WWUS75 KPSR 260908  
 NPWPSR

URGENT - WEATHER MESSAGE  
 NATIONAL WEATHER SERVICE PHOENIX AZ  
 208 AM MST SAT APR 26 2014

AZZ020-025-CAZ030>032-262300-  
 /O.CON.KPSR.WI.Y.0005.140426T1200Z-140427T0300Z/  
 LOWER COLORADO RIVER VALLEY AZ-YUMA/MARTINEZ LAKE AND VICINITY-  
 JOSHUA TREE NATIONAL PARK-LOWER COLORADO RIVER VALLEY CA-  
 RIVERSIDE COUNTY/EASTERN DESERTS-  
 INCLUDING THE CITIES OF...EHRENBERG...PARKER...  
 FORTUNA FOOTHILLS...YUMA...COTTONWOOD VISITOR CENTER...BLYTHE...  
 CHIRIACO SUMMIT...DESERT CENTER  
 208 AM MST SAT APR 26 2014 /208 AM PDT SAT APR 26 2014/

...WIND ADVISORY REMAINS IN EFFECT UNTIL 8 PM MST /8 PM PDT/ THIS  
 EVENING...

A WIND ADVISORY REMAINS IN EFFECT UNTIL 8 PM MST /8 PM PDT/ THIS  
 EVENING.

\* AFFECTED AREA...SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA...  
 INCLUDING YUMA...BLYTHE...JOSHUA TREE NATIONAL PARK.

\* TIMING...FROM 5 AM SATURDAY UNTIL 8 PM SATURDAY.

\* WINDS...GUSTY WEST WINDS BETWEEN 25 AND 35 MPH...WITH  
 OCCASIONAL GUSTS TO 50 MPH ARE POSSIBLE.

\* IMPACTS...TRAVEL WILL BE DIFFICULT FOR HIGH PROFILE VEHICLES  
 ON NORTH-SOUTH ORIENTED ROADWAYS. MOTORISTS ON INTERSTATES 8  
 AND 10 WILL ALSO EXPERIENCE HIGH WINDS, PATCHY BLOWING DUST  
 MAY ALSO DEVELOP DUE TO THE HIGH WINDS WHICH COULD RESULT IN  
 REDUCED VISIBILITIES

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN  
 30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND  
 50 MPH. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY  
 FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT  
 AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER  
 A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA  
 CAUTION.

&&

\$\$

AZZ021>024-026>028-262300-  
 /O.CON.KPSR.WI.Y.0005.140426T1500Z-140427T0000Z/

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201404260908>

2/5

# **FIGURE A-33** **PHOENIX URGENT WEATHER MESSAGE APRIL 26, 2014 – Pg2**

5/21/2018

IEM :: NPW from NWS PSR

WEST CENTRAL DESERTS-NORTHWEST MARICOPA COUNTY-  
 GREATER PHOENIX AREA-  
 SOUTHERN GILA COUNTY/TONTO NATIONAL FOREST FOOTHILLS-  
 SOUTHWEST DESERTS-SOUTHWEST MARICOPA COUNTY-  
 NORTHWEST AND NORTH CENTRAL PINAL COUNTY-  
 INCLUDING THE CITIES OF...QUARTZSITE...SALOME...BUCKEYE...  
 NEW RIVER...WICKENBURG...MESA...PHOENIX...GLOBE...MIAMI...  
 SAN CARLOS...SUPERIOR...TOP-OF-THE-WORLD...TACNA...WELLTON...  
 GILA BEND...APACHE JUNCTION...CASA GRANDE...FLORENCE  
 208 AM MST SAT APR 26 2014

...WIND ADVISORY REMAINS IN EFFECT FROM 8 AM THIS MORNING TO 5 PM  
 MST THIS AFTERNOON...

A WIND ADVISORY REMAINS IN EFFECT FROM 8 AM THIS MORNING TO 5 PM  
 MST THIS AFTERNOON.

\* AFFECTED AREA...THE PHOENIX METRO AREA...THE OPEN DESERTS OF  
 SOUTHWEST ARIZONA...SOUTHERN GILA COUNTY.

\* TIMING...FROM 8 AM SATURDAY UNTIL 5 PM SATURDAY.

\* WINDS...GUSTY WEST WINDS BETWEEN 25 AND 35 MPH...WITH  
 OCCASIONAL GUSTS TO 40 MPH ARE POSSIBLE.

\* IMPACTS...TRAVEL WILL BE DIFFICULT FOR HIGH PROFILE VEHICLES  
 ON NORTH-SOUTH ORIENTED ROADWAYS. MOTORISTS ON INTERSTATES 8  
 AND 10 WILL ALSO EXPERIENCE HIGH WINDS. PATCHY BLOWING DUST  
 MAY ALSO DEVELOP DUE TO THE HIGH WINDS WHICH COULD RESULT IN  
 REDUCED VISIBILITIES ACROSS THE DESERTS.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN  
 30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND  
 50 MPH. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY  
 FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT  
 AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER  
 A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA  
 CAUTION.

&&

\$\$

CAZ033-262300-  
 /O.CON.KPSR.WI.Y.0005.000000T0000Z-140427T0300Z/  
 IMPERIAL COUNTY-  
 INCLUDING THE CITIES OF...BRAWLEY...CALEXICO...EL CENTRO  
 208 AM PDT SAT APR 26 2014

...WIND ADVISORY REMAINS IN EFFECT UNTIL 8 PM PDT THIS EVENING...

A WIND ADVISORY REMAINS IN EFFECT UNTIL 8 PM PDT THIS EVENING.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pii=NPWPSR&e=201404260908>

3/5

**FIGURE A-33**  
**PHOENIX URGENT WEATHER MESSAGE APRIL 26, 2014 – Pg3**

5/21/2018

IEM :: NPW from NWS PSR

\* AFFECTED AREA...IMPERIAL COUNTY...INCLUDING EL CENTRO...AND IMPERIAL.

\* TIMING...UNTIL 8 PM SATURDAY.

\* WINDS...GUSTY WEST WINDS BETWEEN 25 AND 35 MPH...WITH OCCASIONAL GUSTS TO 50 MPH ARE POSSIBLE. STRONGEST WIND GUSTS LIKELY TO OCCUR AFTER 5 AM OR SO...AND INTO THE AFTERNOON HOURS SATURDAY.

\* IMPACTS...TRAVEL WILL BE DIFFICULT FOR HIGH PROFILE VEHICLES ON NORTH-SOUTH ORIENTED ROADWAYS. MOTORISTS ON INTERSTATES 8 AND 10 WILL ALSO EXPERIENCE HIGH WINDS. PATCHY BLOWING DUST MAY ALSO DEVELOP DUE TO THE HIGH WINDS WHICH COULD RESULT IN REDUCED VISIBILITIES

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN 30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND 50 MPH. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA CAUTION.

&&

\$\$

VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

**IOWA STATE  
UNIVERSITY**

College of Ag

Department of Agronomy

**Department of Agronomy**

716 Farm House Ln

Ames, IA 50011

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201404260908>

4/5

**Fig A-33:** The National Weather Service Urgent Weather Message 0108 AM PST (0208 AM MST) Saturday, April 26, 2014 issued by the Phoenix office for Imperial County, Riverside County and Arizona effective through Saturday

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404260908>

# **FIGURE A-34** **SAN DIEGO AREA FORECAST DISCUSSION APRIL 26, 2014 – Pg1**

5/18/2018

IEM :: AFD from NWS SGX

157

FXUS66 KSGX 261008

AFDSGX

AREA FORECAST DISCUSSION

NATIONAL WEATHER SERVICE SAN DIEGO CA

310 AM PDT SAT APR 26 2014

.SYNOPSIS...

A LOW PRESSURE SYSTEM MOVING QUICKLY INLAND THROUGH SOUTHERN CALIFORNIA WILL BRING STRONG GUSTY WEST WINDS THROUGH THIS EVENING...CONTINUING IN THE MOUNTAINS AND DESERTS TONIGHT AND SLOWLY DECREASING. SHOWERS WILL END FOR MOST AREAS EARLY THIS

MORNING...LINGERING NEAR THE MOUNTAINS INTO THIS AFTERNOON. A WARMING TREND FOR SUNDAY THROUGH MID WEEK WITH WELL ABOVE AVERAGE HIGH TEMPERATURES INLAND FOR TUESDAY THROUGH THE END OF THE WEEK... WITH SLOW COOLING FOR NEXT WEEKEND. SURFACE HIGH PRESSURE OVER THE GREAT BASIN WILL BRING GUSTY NORTHEAST WINDS NEAR THE COASTAL FOOTHILLS FOR TUESDAY THROUGH THURSDAY.

&amp;&amp;

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

.SHORT TERM (TODAY THROUGH MONDAY)...

A LOW PRESSURE SYSTEM IS MOVING QUICKLY INLAND THROUGH SOUTHERN CALIFORNIA EARLY THIS MORNING. SHOWERS SHOULD END FOR MOST AREAS AROUND SUNRISE...BUT MAY LINGER INTO THE AFTERNOON NEAR THE MOUNTAINS. OVERNIGHT...RAINFALL AMOUNTS HAVE GENERALLY RANGED FROM ONE TENTH INCH NEAR THE COAST TO ONE HALF TO ONE INCH IN THE MOUNTAINS WITH AMOUNTS A LITTLE LESS IN SAN DIEGO COUNTY...THAN AREAS FARTHER NORTH. IN THE SAN BERNARDINO MOUNTAINS THERE HAVE BEEN ISOLATE AMOUNTS EXCEEDING ONE INCH. THE SNOW LEVEL HAS FALLEN TO AROUND 5000 FEET.

FOR SUNDAY AND MONDAY...HIGH PRESSURE NEAR THE WEST COAST WILL BEGIN TO STRENGTHEN BRINGING A WARMING TREND WITH HIGH TEMPERATURES CLIMBING ABOVE AVERAGE ON MONDAY.

&amp;&amp;

.LONG TERM (TUESDAY THROUGH FRIDAY)...

HIGH PRESSURE ALOFT WILL CONTINUE TO STRENGTHEN ALONG THE WEST COAST AND COMBINED WITH WEAK OFFSHORE FLOW WILL BRING WELL ABOVE AVERAGE HIGH TEMPERATURES FOR INLAND AREAS FOR TUESDAY THROUGH THURSDAY WITH SLIGHT COOLING FOR FRIDAY.

&amp;&amp;

.AVIATION...

260930Z...COAST/VALLEYS...WIDESPREAD BKN-OVC CONDITIONS WITH EMBEDDED LIGHT TO MODERATE RAIN SHOWERS WILL CONTINUE THIS MORNING

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pi=AFDSGX&e=201404261010>

2/5

### FIGURE A-34 SAN DIEGO AREA FORECAST DISCUSSION APRIL 26, 2014 – Pg2

5/18/2018 IEM :: AFD from NWS SGX

THROUGH 26/1600Z. BASES MOSTLY 2000-3000 FT MSL...LAYERED TO 12000 FT MSL WITH HIGHER TERRAIN OBSCURED. VIS WILL LOCALLY LOWER TO 3-5 SM WHERE THE MODERATE PRECIPITATION FALLS. LOW CLOUDS WILL BECOME SCT/BKN WITH BASES 2500-3500 FT MSL FROM 26/1600Z THIS MORNING THROUGH 27/0600Z SATURDAY EVENING. SFC WINDS FROM THE WEST 15-25 KT WITH GUSTS TO 35 KT WILL OCCUR THROUGH SATURDAY AFTERNOON ...WITH HIGHEST WINDS ALONG THE IMMEDIATE COAST AND OVER HIGHER TERRAIN. WINDS WILL BEGIN TO DECREASE AFT 27/0200Z THIS EVENING.

MTNS/DESERTS...COASTAL SLOPES AND RIDGES WILL BE OBSCURED THROUGH 26/1600Z THIS MORNING IN CLOUDS/FOG/SHOWERS...WITH SNOW ABOVE 5000-5500 FT MSL. CLOUDS WILL BE LAYERED TO 14000 FT MSL WITH HIGH CLOUDS ABOVE 20000 FT MSL. STRONG GUSTY SFC WINDS FROM THE W 20-35 KT WITH LOCAL GUSTS OVER 50 KT WILL OCCUR...ESPECIALLY RIDGES/DESERT SLOPES/THROUGH AND EAST OF PASSES THROUGH THIS EVENING.

&&

.MARINE...

THROUGH SUNDAY...NORTHWESTERLY WIND GUSTS 25-30 KT WILL CONTINUE OVER THE COASTAL WATERS AS A STRONG TROUGH OF LOW PRESSURE MOVES EASTWARD THROUGH SOUTHERN CALIFORNIA. THERE MAY BE SOME LOCAL GUSTS TO 35 KT...BUT NOT WIDESPREAD OR PERSISTENT ENOUGH TO WARRANT A GALE WARNING ISSUANCE. THERE WILL BE A STEEP SHORT-PERIOD WEST-NORTHWEST SWELL AT AROUND 7-9 FEET. WINDS AND SEAS WILL CREATE CONDITIONS HAZARDOUS FOR SMALL CRAFT. ALTHOUGH WINDS WILL DROP OFF OVER THE INNER WATERS ON SUNDAY MORNING...STRONG WINDS WILL CONTINUE OVER THE OUTER WATERS THROUGH SUNDAY EVENING. SMALL CRAFT ADVISORY IS IN EFFECT THROUGH 11 AM SUNDAY IN THE INNER WATERS AND 11 PM SUNDAY IN THE OUTER WATERS. SEE LAXMMMSGX FOR DETAILS. WINDS AND SEAS WILL DIMINISH OVER THE OUTER WATERS BY EARLY MONDAY MORNING.

&&

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...HIGH WIND WARNING UNTIL 9 PM PDT THIS EVENING FOR THE APPLE AND LUCERNE VALLEYS...COACHELLA VALLEY...RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS...SAN DIEGO COUNTY DESERTS...SAN DIEGO COUNTY MOUNTAINS.

WINTER WEATHER ADVISORY UNTIL 11 AM PDT THIS MORNING ABOVE 6000 FEET FOR THE RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS.

WIND ADVISORY UNTIL 9 PM PDT THIS EVENING FOR THE ORANGE COUNTY COASTAL AREAS...SAN BERNARDINO AND RIVERSIDE COUNTY VALLEYS-THE INLAND EMPIRE...SAN DIEGO COUNTY COASTAL

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404261010>

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**Fig A-34:** The National Weather Service Area Forecast Discussion 0210 AM PST (0310 AM PDT) Saturday, April 26, 2014 issued by the San Diego office describes a quickly moving low pressure system through southern California decreasing tonight within the mountains and deserts

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404261010>

**FIGURE A-35**  
**PHOENIX URGENT WEATHER MESSAGE APRIL 26, 2014 – Pg1**

5/21/2018

IEM :: NPW from NWS PSR

436  
 WWUS75 KPSR 261135  
 NPWPSR

URGENT - WEATHER MESSAGE  
 NATIONAL WEATHER SERVICE PHOENIX AZ  
 435 AM MST SAT APR 26 2014

AZZ020-025-CAZ031-032-262345-  
 /O.NEW.KPSR.DU.Y.0003.140426T1135Z-140426T2300Z/  
 /O.CON.KPSR.WI.Y.0005.140426T1200Z-140427T0300Z/  
 LOWER COLORADO RIVER VALLEY AZ-YUMA/MARTINEZ LAKE AND VICINITY-  
 LOWER COLORADO RIVER VALLEY CA-RIVERSIDE COUNTY/EASTERN DESERTS-  
 INCLUDING THE CITIES OF...EHRENBURG...PARKER...  
 FORTUNA FOOTHILLS...YUMA...BLYTHE...CHIRIACO SUMMIT...  
 DESERT CENTER  
 435 AM MST SAT APR 26 2014 /435 AM PDT SAT APR 26 2014/  
  
 ...BLOWING DUST ADVISORY IN EFFECT UNTIL 4 PM MST /4 PM PDT/ THIS  
 AFTERNOON...  
 ...WIND ADVISORY REMAINS IN EFFECT UNTIL 8 PM MST /8 PM PDT/ THIS  
 EVENING...  
  
 THE NATIONAL WEATHER SERVICE IN PHOENIX HAS ISSUED A BLOWING DUST  
 ADVISORY...WHICH IS IN EFFECT UNTIL 4 PM MST /4 PM PDT/ THIS  
 AFTERNOON.  
  
 A WIND ADVISORY ALSO REMAINS IN EFFECT UNTIL 8 PM MST /8 PM PDT/ THIS  
 EVENING.  
  
 \* AFFECTED AREA...SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA...  
 INCLUDING YUMA...BLYTHE...AND PARKER.  
  
 \* TIMING...WIND ADVISORY UNTIL 8 PM SATURDAY. BLOWING DUST ADVISORY  
 UNTIL 4 PM.  
  
 \* WINDS...GUSTY WEST WINDS BETWEEN 25 AND 35 MPH...WITH OCCASIONAL  
 GUSTS TO 50 MPH.  
  
 \* VISIBILITY...BELOW 1 MILE IN BLOWING DUST AND SAND AT TIMES.  
  
 \* IMPACTS...TRAVEL WILL BE DIFFICULT FOR HIGH PROFILE VEHICLES ON  
 NORTH-SOUTH ORIENTED ROADWAYS. MOTORISTS ON INTERSTATES 8 AND 10  
 WILL ALSO EXPERIENCE HIGH WINDS. BLOWING DUST AND SAND MAY ALSO  
 DEVELOP DUE TO THE HIGH WINDS WHICH COULD RESULT IN REDUCED  
 VISIBILITIES  
  
 PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN  
 30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND  
 50 MPH. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY  
 FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201404261135>

2/6



## FIGURE A-35 PHOENIX URGENT WEATHER MESSAGE APRIL 26, 2014 – Pg2

5/21/2018

IEM :: NPW from NWS PSR

AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA CAUTION.

BE READY FOR A SUDDEN DROP IN VISIBILITY. IF YOU ENCOUNTER BLOWING DUST OR BLOWING SAND ON THE ROADWAY OR SEE IT APPROACHING...PULL OFF THE ROAD AS FAR AS POSSIBLE AND PUT YOUR VEHICLE IN PARK. TURN THE LIGHTS ALL THE WAY OFF AND KEEP YOUR FOOT OFF THE BRAKE PEDAL.

REMEMBER...PULL ASIDE...STAY ALIVE.

&&

\$\$

CAZ033-262345-  
/O.NEW.KPSR.DU.Y.0003.140426T1135Z-140426T2300Z/  
/O.CON.KPSR.WI.Y.0005.000000T0000Z-140427T0300Z/  
IMPERIAL COUNTY-  
INCLUDING THE CITIES OF...BRAWLEY...CALEXICO...EL CENTRO  
435 AM PDT SAT APR 26 2014

...BLOWING DUST ADVISORY IN EFFECT UNTIL 4 PM PDT THIS AFTERNOON...

...WIND ADVISORY REMAINS IN EFFECT UNTIL 8 PM PDT THIS EVENING...

THE NATIONAL WEATHER SERVICE IN PHOENIX HAS ISSUED A BLOWING DUST ADVISORY...WHICH IS IN EFFECT UNTIL 4 PM PDT THIS AFTERNOON.

A WIND ADVISORY ALSO REMAINS IN EFFECT UNTIL 8 PM PDT THIS EVENING.

\* AFFECTED AREA...IMPERIAL COUNTY...INCLUDING EL CENTRO...AND IMPERIAL.

\* TIMING...WIND ADVISORY UNTIL 8 PM SATURDAY. A BLOWING DUST ADVISORY UNTIL 4 PM.

\* WINDS...GUSTY WEST WINDS BETWEEN 25 AND 35 MPH...WITH OCCASIONAL GUSTS TO 50 MPH ARE POSSIBLE. STRONGEST WIND GUSTS LIKELY TO OCCUR AFTER 5 AM OR SO...AND INTO THE AFTERNOON HOURS SATURDAY.

\* VISIBILITY...BELOW 1 MILE IN BLOWING DUST AND SAND AT TIMES.

\* IMPACTS...TRAVEL WILL BE DIFFICULT FOR HIGH PROFILE VEHICLES ON NORTH-SOUTH ORIENTED ROADWAYS. MOTORISTS ON INTERSTATES 8 AND 10 WILL ALSO EXPERIENCE HIGH WINDS. BLOWING DUST AND SAND MAY ALSO DEVELOP DUE TO THE HIGH WINDS WHICH COULD RESULT IN REDUCED VISIBILITIES

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201404261135>

3/6

**Fig A-35:** The National Weather Service Urgent Weather Message 0335 AM PST (0435 AM MST) Saturday, April 26, 2014 issued by the Phoenix office for Imperial County, Riverside County and Arizona effective through Saturday

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404261135>

## FIGURE A-36 PHOENIX PRELIMINARY LOCAL STORM REPORT APRIL 26, 2014

5/21/2018

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**Iowa State University**

**Iowa Environmental Mesonet**

**National Weather Service Raw Text Product**

Displaying AFOS PIL: **LSRPSR** Received: **2014-04-26 11:43 UTC**

← Previous in Time

View All KPSR Products for 26 Apr 2014

Next in Time →

Latest Product

View As Image

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r
576
NMUS55 KPSR 261143
LSRPSR

PRELIMINARY LOCAL STORM REPORT
NATIONAL WEATHER SERVICE PHOENIX AZ
443 AM MST SAT APR 26 2014

..TIME...   ..EVENT...   ...CITY LOCATION...   ...LAT,LON...
..DATE...   ...MAG....   ..COUNTY LOCATION..ST.. ..SOURCE....
..REMARKS..

0421 AM     NON-TSTM WND GST EL CENTRO NAVAL AIRFIEL 32.82N 115.67W
04/26/2014  M52 MPH          IMPERIAL             CA  ASOS

                    52 MPH WIND GUST REPORTED BY NJK METAR. VSBY ONE AND
                    THREE QUARTER MILE IN BLOWING DUST.

&&

EVENT NUMBER PSR1400017

$$

HV

```

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=LSRPSR&e=201404261143>

1/2

**Fig A-36:** The National Weather Service Preliminary Local Storm Report 0343 AM PST (0443 AM MST) Saturday, April 26, 2014 issued by the Phoenix office identified 52 mph wind gust by the El Centro Naval Air Facility KNJK with visibility one and  $\frac{3}{4}$  mile due to blowing dust

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=LSRPSR&e=201404261143>

**FIGURE A-37**  
**PHOENIX HAZARDOUS WEATHER OUTLOOK APRIL 26, 2014 – Pg1**

5/21/2018

IEM :: HWO from NWS PSR

↑  
537  
FLUS45 KPSR 261241  
HWOPSR

HAZARDOUS WEATHER OUTLOOK  
NATIONAL WEATHER SERVICE PHOENIX AZ  
541 AM MST SAT APR 26 2014

AZZ020-025-CAZ031-270345-  
LOWER COLORADO RIVER VALLEY AZ-YUMA/MARTINEZ LAKE AND VICINITY-  
LOWER COLORADO RIVER VALLEY CA-  
541 AM MST SAT APR 26 2014 /541 AM PDT SAT APR 26 2014/

...BLOWING DUST ADVISORY IN EFFECT UNTIL 4 PM MST /4 PM PDT/ THIS  
AFTERNOON...  
...WIND ADVISORY IN EFFECT UNTIL 8 PM MST /8 PM PDT/ THIS EVENING...

THIS HAZARDOUS WEATHER OUTLOOK IS FOR EXTREME SOUTHWEST  
ARIZONA...EXTREME WEST-CENTRAL ARIZONA AND EXTREME SOUTHEAST  
CALIFORNIA.

.DAY ONE...TODAY AND TONIGHT.

A COLD FRONTAL PASSAGE WILL PRODUCE STRONG WIND GUSTS IN THE 35 TO  
POSSIBLY 50 MPH RANGE THROUGH THIS AFTERNOON. REDUCED VISIBILITIES IN  
BLOWING DUST AND SAND IS LIKELY.

.DAYS TWO THROUGH SEVEN...SUNDAY THROUGH FRIDAY.

NO HAZARDOUS WEATHER IS EXPECTED AT THIS TIME.

.SPOTTER INFORMATION STATEMENT...

SPOTTER ACTIVATION MAY BE NEEDED.

\$\$

CAZ030-270345-  
JOSHUA TREE NATIONAL PARK-  
541 AM PDT SAT APR 26 2014

...WIND ADVISORY IN EFFECT UNTIL 8 PM PDT THIS EVENING...

THIS HAZARDOUS WEATHER OUTLOOK IS FOR SOUTHEAST CALIFORNIA.

.DAY ONE...TODAY AND TONIGHT.

A COLD FRONTAL PASSAGE WILL PRODUCE STRONG WIND GUSTS IN THE 35 TO  
POSSIBLY 50 MPH RANGE THROUGH THIS AFTERNOON.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pi=HWOPSR&e=201404261241>

2/5

**FIGURE A-37**  
**PHOENIX HAZARDOUS WEATHER OUTLOOK APRIL 26, 2014 – Pg2**

5/21/2018

IEM :: HWO from NWS PSR

REDUCED VISIBILITIES IN BLOWING DUST ON THE DESERTS IS LIKELY. A CHANCE OF THUNDERSTORMS IS POSSIBLE THIS AFTERNOON. THUNDERSTORM HAZARDS INCLUDE STRONG ERRATIC WIND GUSTS AND DEADLY LIGHTNING.

.DAYS TWO THROUGH SEVEN...SUNDAY THROUGH FRIDAY.

NO HAZARDOUS WEATHER IS EXPECTED AT THIS TIME.

.SPOTTER INFORMATION STATEMENT...

SPOTTER ACTIVATION MAY BE NEEDED.

\$\$

CAZ033-270345-  
 IMPERIAL COUNTY-  
 541 AM PDT SAT APR 26 2014

...BLOWING DUST ADVISORY IN EFFECT UNTIL 4 PM PDT THIS AFTERNOON...  
 ...WIND ADVISORY IN EFFECT UNTIL 8 PM PDT THIS EVENING...

THIS HAZARDOUS WEATHER OUTLOOK IS FOR EXTREME SOUTHEAST CALIFORNIA.

.DAY ONE...TODAY AND TONIGHT.

A COLD FRONTAL PASSAGE WILL PRODUCE STRONG WIND GUSTS IN THE 35 TO POSSIBLY 50 MPH RANGE THROUGH THIS AFTERNOON. REDUCED VISIBILITIES IN BLOWING DUST AND SAND IS LIKELY.

.DAYS TWO THROUGH SEVEN...SUNDAY THROUGH FRIDAY.

NO HAZARDOUS WEATHER IS EXPECTED AT THIS TIME.

.SPOTTER INFORMATION STATEMENT...

SPOTTER ACTIVATION MAY BE NEEDED.

\$\$

NATIONAL WEATHER SERVICE PHOENIX IS ON THE INTERNET AT  
 WEATHER.GOV/PHOENIX

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=HWOPSR&e=201404261241>

4/5

**Fig A-37:** The National Weather Service Hazardous Weather Outlook 0441 AM PST (0541 AM MST) Saturday, April 26, 2014 issued by the Phoenix office for Imperial and Riverside Counties, and Arizona. Note the reduced visibility due to blowing dust  
<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=HWOPSR&e=201404260430>

**FIGURE A-38**  
**SAN DIEGO AREA FORECAST DISCUSSION APRIL 26, 2014 – Pg1**

5/18/2018

IEM :: AFD from NWS SGX

r  
851  
FXUS66 KSGX 261619  
AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
920 AM PDT SAT APR 26 2014

**.SYNOPSIS...**

AS THE UPPER LEVEL LOW SHIFTS EAST TODAY...STRONG AND GUSTY WEST WINDS WILL CONTINUE ACROSS THE MOUNTAINS AND DESERTS...WITH A FEW LINGERING SHOWERS POSSIBLE...MAINLY NEAR THE MOUNTAINS. DRY AND WARMER CONDITIONS WILL THEN DEVELOP STARTING ON SUNDAY...AS A STRONG RIDGE OF HIGH PRESSURE BUILDS OVER THE WEST COAST FOR THE WORK WEEK. SOME WEAK TO LOCALLY MODERATE OFFSHORE WINDS WILL BE POSSIBLE FOR MONDAY THROUGH THURSDAY THROUGH AND BELOW THE FAVORED PASSES AND CANYONS AS WELL AS ALONG THE COASTAL SLOPES.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

WATER VAPOR IMAGERY SHOWS THE UPPER LEVEL LOW OVER LAS VEGAS THIS MORNING...WITH SOUTHERN CALIFORNIA UNDER DRIER NORTHWESTERLY FLOW ALOFT. AS A RESULT...DRIER CONDITIONS ARE BEGINNING TO DEVELOP ACROSS THE SOUTHLAND. HOWEVER...COMPOSITE RADAR IMAGERY SHOWS AREAS ALONG AND WEST OF THE MOUNTAINS IN SAN DIEGO COUNTY ARE STILL SEEING SCATTERED LIGHT SHOWERS FORM AND MOVE ONSHORE. FOR THIS REASON...WILL LIKELY LET THE WINTER WEATHER ADVISORY EXPIRE ON TIME AT 11 AM FOR THE SAN BERNARDINO AND RIVERSIDE COUNTY MOUNTAINS. AT THIS TIME...LOCAL SNOW FALL REPORTS SEEM ON TRACK WITH 2 TO 4 INCHES ABOVE 6000 FEET. WILL UPDATE THE RRM LATER THIS MORNING...WHEN WE HAVE MORE REPORTS AND THE BRUNT OF THE SHOWER ACTIVITY IS OVER. OTHERWISE...JUST WATCHING THE SURFACE GRADIENTS AND WINDS AT THIS TIME.

THE ONSHORE GRADIENTS ARE CURRENTLY TRENDING DOWNWARD...WITH THE SAN DIEGO TO TONOPAH AT 11.2 MBS AND THE SAN DIEGO TO IMPERIAL GRADIENT HOLDING STEADY AT 5.2 MBS. A FEW OF THE FAVORED LOCATIONS IN THE MOUNTAINS ARE STILL SEEING GUSTS OVER 60 MPH...BUT MOST ARE IN THE 45 TO 55 MPH RANGE. THE MODELS SHOW THE UPPER LEVEL SUPPORT AT BOTH 850 MBS AND 30 AGL RANGING BETWEEN 40 AND 50 KTS THROUGH THIS EVENING...SO WILL MOST LIKELY KEEP THE HIGH WIND WARNING FOR THE MOUNTAINS AND DESERTS THROUGH THIS EVENING. ON THE OTHER HAND...THE WINDS HAVE DECREASED IN THE COASTAL AREAS AND VALLEYS...WITH MOST LOCATIONS ONLY GUSTING TO AROUND 25 MPH. FOR THIS REASON...WILL LIKELY CONSIDER LETTING THE WIND ADVISORY GO FOR THESE AREAS AT THE UPDATE TIME OF 18Z IN THE 12Z WRF CONTINUES TO TREND LOWER FOR THESE AREAS.

THE MODELS ARE HINTING AT A FEW LINGERING SHOWERS CONTINUING ALONG

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404261620>

2/5

## FIGURE A-38

### SAN DIEGO AREA FORECAST DISCUSSION APRIL 26, 2014 – Pg2

5/18/2018

IEM :: AFD from NWS SGX

AND WEST OF THE SAN DIEGO COUNTY MOUNTAINS THROUGH THIS EVENING...AS

ONE MORE WEAK IMPULSE MOVES ACROSS THE REGION. ALTHOUGH THE ONSHORE FLOW WILL CONTINUE INTO SUNDAY...DRIER AND WARMER CONDITIONS WILL THEN DEVELOP OVER THE REGION FOR SUNDAY. A STRONG RIDGE OF HIGH PRESSURE WILL THEN BUILD OVER THE WEST FOR THE WORK WEEK...WITH SIGNIFICANTLY WARMER CONDITIONS DEVELOPING BY MIDWEEK. DAYTIME TEMPERATURES WILL LIKELY BE 8 TO 15 DEGREES ABOVE AVERAGE...EVEN ALONG THE COAST. THERE IS ALSO THE POTENTIAL FOR SOME WEAK TO LOCALLY MODERATE OFFSHORE WINDS DEVELOPING AS EARLY AS MONDAY...BUT MORE LIKELY FOR TUESDAY THROUGH THURSDAY. NEEDLESS TO SAY...IT WILL BE A WARM WEEK...AND FEEL MORE LIKE SUMMER THAN SPRING.

&&

.AVIATION...

261532Z...BKN-SCT CLDS IN THE 3000-10000 FT MSL LAYER WITH EMBEDDED ISOL-SCT LIGHT SHOWERS AND MTN OBSCURATION WILL CONTINUE OVER AND W OR SW OF THE MTNS THROUGH 1800 UTC AND PARTIALLY CLEAR/DISSIPATE 1800-27/0000 UTC. ELSEWHERE...SCT-FEW CLDS IN THE 6000-10000 FT MSL LAYER AND UNRESTRICTED VIS...EXCEPT FOR LOCAL VIS AOB 3SM IN THE DESERTS DUE TO BLDU. 27/0000-1500 UTC...MAINLY SCT-BKN CLDS IN THE 3000-5000 FT MSL LAYER ALONG THE COASTAL MTN SLOPES AND W AND SW OF THE MTNS...WITH MTN OBSCURATION POSSIBLE. ELSEWHERE...FEW-SCT CLDS AOA 15000 FT MSL AND UNRESTRICTED VIS.

W WINDS 20-35 KT WITH GUSTS 40-55 KT ALONG DESERT SLOPES...THROUGH PASSES/CANYONS AND INTO ADJACENT DESERT AREAS WILL RESULT IN STG-SVR UDDFS/LLWS/ROTORS OVER AND E OR NE OF THE MTNS. KSN WILL LIKELY CONTINUE TO SEE W SFC WINDS GUSTING 25 TO POSSIBLY 30 KT AT TIMES THROUGH 2100 UTC...WITH WINDS GRADUALLY DIMINISHING THEREAFTER.

&&

.MARINE...

AT 800 AM...THE SAN CLEMENTE BASIN BUOY SHOWED STRONG NORTHWEST WINDS GUSTING TO 29 KT WITH STEEP 10 FOOT SEAS. THROUGH SUNDAY...NORTHWESTERLY WIND GUSTS 25-30 KT WILL CONTINUE OVER THE COASTAL WATERS AS A STRONG TROUGH OF LOW PRESSURE CONTINUE TO MOVE THROUGH SOUTHERN CALIFORNIA. THERE MAY BE SOME LOCAL GUSTS TO 35 KT...BUT NOT WIDESPREAD OR PERSISTENT ENOUGH TO WARRANT A GALE WARNING ISSUANCE. MEANWHILE...STEEP SHORT-PERIOD WEST-NORTHWEST SWELLS AT AROUND 7-10 FEET WILL CONTINUE THROUGH SUNDAY MORNING BEFORE SEAS GRADUALLY LOWER. ALTHOUGH WINDS WILL DROP OFF OVER THE INNER WATERS ON SUNDAY MORNING...STRONG WINDS WILL CONTINUE OVER THE OUTER WATERS THROUGH SUNDAY EVENING. A SMALL CRAFT ADVISORY IS IN EFFECT THROUGH 11 AM SUNDAY IN THE INNER WATERS AND THROUGH 11 PM SUNDAY IN THE OUTER WATERS. SEE LAXMWSGX FOR DETAILS. WINDS AND SEAS WILL CONTINUE TO DIMINISH OVER THE OUTER WATERS SUNDAY NIGHT THROUGH EARLY MONDAY MORNING.

&&

.BEACHES...

A LONG-PERIOD SOUTH SWELL WILL BUILD TODAY AND PEAK THIS

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pill=AFDSGX&e=201404261620>

3/5



## FIGURE A-38

### SAN DIEGO AREA FORECAST DISCUSSION APRIL 26, 2014 – Pg3

5/18/2018

IEM :: AFD from NWS SGX

AFTERNOON THROUGH SUNDAY AT 4 FT/17-19 SECONDS...LIKELY PRODUCING HIGH SURF OF 5-8 FEET WITH LOCALLY HIGHER SETS AND STRONG RIP CURRENTS ALONG THE ORANGE COUNTY BEACHES. A HIGH SURF ADVISORY GOES INTO EFFECT FOR THE ORANGE COUNTY COAST AT 11 AM. SAN DIEGO COUNTY WILL BE LESS FAVORED...DUE TO THE SOUTHERLY DIRECTION OF THE SWELL...BUT WILL STILL SEE ELEVATED SURF...STRONG RIP CURRENTS AND ALSO LONGSHORE CURRENTS. A BEACH HAZARDS STATEMENT REMAINS POSTED. THE SWELL WILL SLOWLY LOWER MONDAY THROUGH TUESDAY.

&amp;&amp;

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&amp;&amp;

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...HIGH WIND WARNING UNTIL 9 PM PDT THIS EVENING FOR THE APPLE AND LUCERNE VALLEYS...COACHELLA VALLEY...RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS...SAN DIEGO COUNTY DESERTS...SAN DIEGO COUNTY MOUNTAINS.

WINTER WEATHER ADVISORY UNTIL 11 AM PDT THIS MORNING ABOVE 6000 FEET FOR THE RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS.

WIND ADVISORY UNTIL 9 PM PDT THIS EVENING FOR THE ORANGE COUNTY COASTAL AREAS...SAN BERNARDINO AND RIVERSIDE COUNTY VALLEYS-THE INLAND EMPIRE...SAN DIEGO COUNTY COASTAL AREAS...SAN DIEGO COUNTY VALLEYS...SANTA ANA MOUNTAINS AND FOOTHILLS.

HIGH SURF ADVISORY UNTIL 10 PM PDT SUNDAY FOR THE BEACHES IN THE ORANGE COUNTY COASTAL AREAS.

BEACH HAZARDS STATEMENT THROUGH LATE MONDAY NIGHT FOR THE SAN DIEGO COUNTY COASTAL AREAS.

PZ...SMALL CRAFT ADVISORY UNTIL 11 PM PDT SUNDAY FOR THE WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER EXTENDING 30 TO 60 NM OUT INCLUDING SAN CLEMENTE ISLAND.

SMALL CRAFT ADVISORY UNTIL 11 AM PDT SUNDAY FOR THE COASTAL WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER AND OUT 30 NM.

&amp;&amp;

\$\$

PUBLIC...PALMER

AVIATION/MARINE...HARRISON

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404261620>

4/5

**Fig A-38:** The National Weather Service Area Forecast Discussion 0820 AM PST (0920 AM PDT) Saturday, April 26, 2014 issued by the San Diego office describes the shifting of the upper level low to the east and the continuing of the strong gusty westerlies across the mountains and deserts

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404261620>

# FIGURE A-39

## PHOENIX AREA FORECAST DISCUSSION APRIL 26, 2014 – Pg1

5/21/2018

IEM :: AFD from NWS PSR

r  
290  
FXUS65 KPSR 261710  
AFDPSR

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE PHOENIX AZ  
1005 AM MST SAT APR 26 2014

### .SYNOPSIS...

A COLD FRONT WILL MOVE ACROSS THE REGION TODAY...RESULTING IN WINDY CONDITIONS AND MUCH COOLER TEMPERATURES. AREAS OF BLOWING DUST CAN ALSO BE EXPECTED ON THE DESERTS. A CHANCE OF SHOWERS AND THUNDER STORMS IS ALSO POSSIBLE...BUT MAINLY OVER PARTS OF SOUTH-CENTRAL ARIZONA. CLEARING SKIES WITH DIMINISHING WIND IS EXPECTED TONIGHT. DRY WEATHER WITH A SLOW WARMING TREND WILL DEVELOP SUNDAY THROUGH NEXT WEEK.

&&

### .DISCUSSION...

A VIGOROUS AND COLD UPPER LEVEL TROUGH CONTINUES ITS EASTWARD TREK ACROSS THE REGION THIS MORNING. IMPACTS SO FAR TO OUR CWA HAVE BEEN STRONG GUSTY WINDS UP TO 43KT/50MPH AT YUMA...AND AREAS OF BLOWING DUST THAT HAVE DROPPED VISIBILITIES DOWN TO 1/2 MILE. SOME SHOWERS ARE ALSO NOTED ON RADAR...CURRENTLY FORMING ACROSS NORTH AND CENTRAL PORTIONS OF MARICOPA COUNTY. THE STRONG WINDS AND POTENTIAL FOR BLOWING DUST WILL CONTINUE INTO THE AFTERNOON HOURS AS THE COLD FRONT TRANSLATES EAST ACROSS OUR CWA. A WIND ADVISORY REMAINS IN EFFECT FOR OUR ENTIRE FORECAST AREA UNTIL 5 PM THIS AFTERNOON. A BLOWING DUST ADVISORY IS ALSO IN EFFECT FOR SOUTHEAST CALIFORNIA AND THE LOWER COLORADO RIVER VALLEY THROUGH THIS AFTERNOON...BUT IT IS ALSO POSSIBLE TO HAVE LOCALIZED BLOWING DUST IN CONJUNCTION WITH THE FROPA ACROSS THE LOWER DESERTS IN SOUTH-CENTRAL AZ. FOR THE MOST PART...EXPECT THE DUST TO REMAIN LOFTED AND SURFACE VISIBILITIES BRIEFLY IMPACTED DOWN TO 2-3SM...BUT WILL CONTINUE TO MONITOR TRENDS. THE INHERITED DIGITAL FORECAST GRIDS IN THE NEAR TERM NEED NO ADJUSTMENT. PREVIOUS DISCUSSION APPLIES.

PREVIOUS DISCUSSION...THE STRONG COLD FRONT WILL MOVE THROUGH THE PHOENIX AREA AROUND 10 AM. THE STRONGEST WINDS THIS MORNING SHOULD BE NEAR THE MOUNTAIN/DESERT INTERFACE IN SOUTHEAST CA...PARTICULARLY THE IMPERIAL VALLEY AND SALTON SEA WITH GUSTS TO 50 MPH. SUDDEN GUSTS PERHAPS IN THE 40 TO 45 MPH RANGE ARE POSSIBLE IN SOUTH CENTRAL AZ...INCLUDING PHOENIX...IMMEDIATELY WITH THE COLD FRONT DURING THE LATE MORNING HOURS.

PRECIP WISE...WATER VAPOR IMAGERY SHOWED THE APPROACHING SYSTEM TAKING A NEGATIVE TILT SIGNATURE...SIGNIFYING INCREASING VERTICAL MOTION. PRECIP WATER IMAGERY ALSO SHOWED AMOUNTS INCREASING ALONG THE SOUTHERN CA COAST...SO PLENTY OF MOISTURE FOR A CHANCE OF SHOWERS AND PERHAPS A THUNDERSTORM IS POSSIBLE MAINLY OVER THE PARTS OF LA PAZ...MARICOPA...AND SOUTHERN GILA COUNTIES TODAY. ESTABLISHED FORECASTS LOOK GOOD SO VERY LITTLE CHANGES WERE MADE ON THIS SHIFT.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404261705>

2/5

## FIGURE A-39 PHOENIX AREA FORECAST DISCUSSION APRIL 26, 2014 – Pg2

5/21/2018

IEM :: AFD from NWS PSR

CLOUDS...THE CHANCE OF PRECIP...AND DECREASING WIND IS EXPECTED THIS EVENING. THIS IS A VERY FAST MOVING SYSTEM SO RAPID CLEARING IS EXPECTED BY MIDNIGHT.

SUNDAY AND MONDAY...

DRY NORTHWEST FLOW ALOFT WITH STRONG ATMOSPHERIC SUBSIDENCE FIELDS SHOULD STABILIZE THE ATMOSPHERE FOR DRY WEATHER SUNDAY AND MONDAY. CONTINUED BELOW NORMAL TEMPERATURES ARE FORECAST SUNDAY...WITH A STRONG WARM-UP MONDAY TO NEAR SEASONAL NORMS.

TUESDAY THROUGH FRIDAY...

DRY WEATHER WITH ABOVE NORMAL TEMPERATURES ARE FORECAST. THE ONLY CAVEAT WILL BE GUSTY NORTH WINDS OVER THE FORECAST AREA...ESPECIALLY DOWN THE COLORADO RIVER VALLEY TUESDAY AND WEDNESDAY.

&&

.AVIATION...

SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL... STRONG COLD FRONT AND ASSOCIATED UPPER-LEVEL LOW CENTER TO BRING STRONG...AND GUSTY WESTERLY WINDS TO THE PHX AREA TODAY. THE STRONGEST WINDS ARE EXPECTED TO OCCUR ALONG/JUST AHEAD OF THE MAIN FRONT...IN THE 16Z-21Z TIMEFRAME...WITH SUSTAINED WINDS IN THE 20-25KT RANGE WITH GUSTS TO 35 KNOTS. CIGS ARE EXPECTED TO LOWER INTO THE 4-6K FT RANGE LATER THIS MORNING...ALONG WITH A CHANCE FOR SHOWERS...AND EVEN A REMOTE CHANCE FOR A THUNDERSTORM. CIGS TO RAPIDLY CLEAR AND WINDS DIMINISH LATER THIS AFTERNOON/EVENING AS THE MAIN FRONT/UPPER LOW MOVE OFF RAPIDLY TO THE EAST.

SOUTHEAST CALIFORNIA/SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...ELEVATED WINDS ACROSS SOUTHEAST CALIFORNIA WILL PERSIST INTO THE EARLY EVENING HOURS TODAY...WITH PEAK GUSTS IN EXCESS OF 30KT AT TIMES. ALTHOUGH SHOWERS ARE NOT EXPECTED TO AFFECT THE TERMINALS...BLOWING DUST WILL LIKELY OCCUR WITH THE STRONG WINDS. THUS...WILL LEAVE BLDU IN BOTH TAFS. WINDS COULD BE PARTICULARLY STRONG BETWEEN 12Z AND 16Z WITH THE FRONTAL PASSAGE...POSSIBLY GUSTING TO 45KTS FOR A BRIEF TIME...WITH CIGS BRIEFLY FALLING AS LOW AS 5K FT BEFORE RAPIDLY CLEARING LATER THIS MORNING/EARLY AFTERNOON. WINDS TO DIMINISH LATER THIS EVENING/TONIGHT AS SFC PRESSURE GRADIENTS BEGIN TO WEAKEN.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.FIRE WEATHER...

MONDAY THROUGH FRIDAY...

HIGH PRESSURE WILL SETTLE OVER THE AREA NEXT WEEK BUT WINDS WILL INCREASE DOWN THE COLORADO RIVER ON MONDAY AND TUESDAY. THERE'S A POSSIBILITY THAT SOME SPOTS ALONG THE RIVER COULD REACH CRITICAL THRESHOLDS BUT NOT CONFIDENT ENOUGH TO INCLUDE ANY HEADLINES IN THE FORECAST THAT FAR IN ADVANCE. COULD ALSO BE LOOKING AT SOME DOWNSLOPE WINDS EAST OF PHOENIX AS WELL BUT WILL NEED TO REFINE THAT

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSPR&e=201404261705>

3/5

## FIGURE A-39 PHOENIX AREA FORECAST DISCUSSION APRIL 26, 2014 – Pg3

5/21/2018

IEM :: AFD from NWS PSR

AS WE GET CLOSER. OTHER THAN THAT...WEDNESDAY THROUGH THE END OF THE WEEK LOOKS QUIET. DRY AFTERNOONS WITH FAIR OVERNIGHT RECOVERIES.

&amp;&amp;

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...WIND ADVISORY 5 AM TO 8 PM MST TODAY AZZ020-025

WIND ADVISORY FROM 8 AM TO 5 PM MST TODAY AZZ021&gt;024-026-028.

BLOWING DUST ADVISORY IN EFFECT UNTIL 4 PM MST TODAY

AZZ020-025.

CA...WIND ADVISORY FROM 5 AM TO 8 PM PDT SATURDAY CAZ030&gt;033.

BLOWING DUST ADVISORY IN EFFECT UNTIL 4 PM PDT TODAY

CAZ031&gt;033.

&amp;&amp;

\$\$

VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...MEYERS/VASQUEZ

AVIATION...PERCHA

FIRE WEATHER...PERCHA

# IOWA STATE UNIVERSITY

College of Ag

Department of Agronomy

**Department of Agronomy**

716 Farm House Ln

Ames, IA 50011

akrherz@iastate.edu

515-294-5978 phone



Facebook

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404261705>

4/5

**Fig A-39:** The National Weather Service Area Forecast Discussion 0905 AM PST (1005 AM MST) Saturday, April 26, 2014 issued by the Phoenix office described a vigorous and cold upper level trough continuing to move eastward with affects thus far as strong gusty winds

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404261705>

## FIGURE A-40 SAN DIEGO URGENT WEATHER MESSAGE APRIL 26, 2014

5/18/2018
IEM :: NPW from NWS SGX

r  
 038  
 WWUS76 KSGX 261745  
 NPWSGX

URGENT - WEATHER MESSAGE  
 NATIONAL WEATHER SERVICE SAN DIEGO CA  
 1045 AM PDT SAT APR 26 2014

...PERIODS OF STRONG GUSTY WEST WINDS THROUGH EARLY EVENING...

.STRONG ONSHORE FLOW AND GUSTY WEST WINDS WILL CONTINUE ACROSS SOUTHERN CALIFORNIA THROUGH THIS EVENING...AS THE UPPER LEVEL LOW CONTINUES TO SHIFT INLAND. THE STRONGEST WINDS WILL CONTINUE TO BE IN THE MOUNTAINS AND DESERTS.

CAZ055-056-058-060>062-270400-  
 /O.CON.KSGX.HW.W.0008.00000T0000Z-140427T0400Z/  
 SAN BERNARDINO COUNTY MOUNTAINS-RIVERSIDE COUNTY MOUNTAINS-  

SAN DIEGO COUNTY MOUNTAINS-APPLE AND LUCERNE VALLEYS-  
 COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-  
 1045 AM PDT SAT APR 26 2014

...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 9 PM PDT THIS EVENING...

- \* WINDS...AREAS OF WEST WINDS 25 TO 35 MPH...WITH GUSTS TO 55 MPH. ISOLATED GUSTS TO 70 MPH.
- \* TIMING...LOCALLY STRONG GUSTY WINDS THROUGH EARLY THIS EVENING...THEN GRADUALLY DECREASING LATE TONIGHT THROUGH EARLY SUNDAY.
- \* LOCATION...STRONGEST SUSTAINED WINDS ALONG MOUNTAIN RIDGE TOPS AND ON ADJACENT DESERT SLOPES. STRONG WIND GUSTS WILL SURFACE OCCASIONALLY ON THE DESERT FLOOR.
- \* VISIBILITY...IN THE DESERTS REDUCED AT TIMES BY BLOWING SAND AND DUST.

\* IMPACTS...THE WINDS WILL MAKE DRIVING DIFFICULT...ESPECIALLY FOR MOTORISTS WITH HIGH PROFILE VEHICLES. TRAVEL MAY BE IMPACTED ALONG 1-10 IN THE COACHELLA VALLEY AND I-8 THROUGH THE SAN DIEGO COUNTY MOUNTAINS...AND ALONG STATE HIGHWAYS 18 AND 247 IN SAN BERNARDINO COUNTY. WATCH FOR BROKEN TREE LIMBS AND OTHER DEBRIS ON ROADWAYS.

\* REPORTS...SKY VALLEY GUSTED TO 76 MPH AT 0800 PM. VOLCAN MOUNTAIN GUSTED TO 74 MPH AT 0410 AM. TORO PEAK GUSTED TO 69 MPH AT 1000 PM. HARRISON PARK GUSTED TO 69 MPH AT 0240 AM. LUCKY FIVE RANCH GUSTED TO 68 MPH AT 0250 AM. BURNS CANYON GUSTED TO 67 MPH AT 1051 PM. EDM HILL GUSTED TO 64 MPH AT 0900 PM. BIG BLACK MOUNTAIN GUSTED TO 63 MPH AT 0200 AM...AND BOUCHER HILL GUSTED TO 66 MPH AT 0100 AM.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201404261745>
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**Fig A-40:** The National Weather Service Urgent Weather Message 0945 AM PST (1045 AM PDT) Saturday, April 26, 2014 issued by the San Diego office for the San Diego Mountains and Coachella Valley-San Diego Deserts, effective Friday through Saturday  
<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201404261745>

## FIGURE A-41 SAN DIEGO AREA FORECAST DISCUSSION APRIL 26, 2014 – Pg1

5/18/2018

IEM :: AFD from NWS SGX

7  
400  
FXUS66 KSGX 262045  
AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
145 PM PDT SAT APR 26 2014

### .SYNOPSIS...

AS THE UPPER LEVEL LOW SHIFTS EAST THIS EVENING...STRONG AND GUSTY WEST WINDS WILL GRADUALLY DECREASE ACROSS THE MOUNTAINS AND DESERTS...EVEN THOUGH WINDY CONDITIONS WILL CONTINUE THROUGH THE NIGHT. A FEW LINGERING SHOWERS WILL ALSO BE POSSIBLE THROUGH THIS EVENING...MAINLY NEAR THE SAN DIEGO COUNTY MOUNTAINS. DRY AND WARMER CONDITIONS WILL THEN DEVELOP ON SUNDAY...AS A STRONG RIDGE OF HIGH PRESSURE BEGINS TO BUILD OVER THE WEST COAST FOR THE WORK WEEK. TEMPERATURES WILL BE 10 TO 20 DEGREES ABOVE AVERAGE BY MIDWEEK. SOME WEAK TO LOCALLY MODERATE OFFSHORE WINDS WILL BE POSSIBLE FOR MONDAY THROUGH THURSDAY THROUGH AND BELOW THE FAVORED PASSES AND CANYONS AS WELL AS ALONG THE COASTAL SLOPES.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

WATER VAPOR IMAGERY SHOWS THE UPPER LEVEL LOW CONTINUING TO SHIFT EAST THIS AFTERNOON...CURRENTLY CENTERED OVER NORTHWEST ARIZONA. AS A RESULT...DRY NORTHWESTERLY FLOW ALOFT IS NOW FILTERING INTO SOUTHERN CALIFORNIA...BUT ANOTHER WEAK DISTURBANCE IS APPROACHING

THE CENTRAL CALIFORNIA COAST. AT THIS TIME...IT APPEARS THAT THE PRIMARY INFLUENCE OF THIS SECONDARY AND WEAKER DISTURBANCE WILL BE THE CONTINUATION OF THE STRONG WEST WINDS ACROSS THE REGION THROUGH TONIGHT...BUT IT WILL ALSO BRING SOME MORE HIGH CLOUDS TO THE SOUTHLAND AS WELL. FOR NOW...HAVE LEFT THE HIGH WIND WARNINGS FOR THE MOUNTAINS AND DESERTS IN TACT AS WELL AS THE WIND ADVISORIES FOR THE COASTAL AREAS AND VALLEYS. HOWEVER...IT APPEARS THAT WIND ADVISORIES WILL LIKELY BE NEEDED FOR THE MOUNTAINS AND DESERTS THROUGH TONIGHT AND MOST OF SUNDAY...AS THIS SECONDARY DISTURBANCE MOVES THROUGH THE REGION. IN THE MEANTIME THOUGH...JUST CONTINUING TO WATCH ISOLATED SHOWERS FORM ALONG A CONVERGENCE ZONE SOUTHEAST OF SANTA CATALINA ISLAND. THERE IS ALSO A SECONDARY CONVERGENCE SOUTHEAST OF SAN CLEMENTE ISLAND...BUT IT FOCUSES JUST SOUTH OF THE BORDER. THIS ISLAND BAND CONVERGENCE WILL LIKELY GENERATE ISOLATED SHOWERS THAT MOVE ONSHORE THROUGH EARLY THIS EVENING...BEFORE FINALLY TAPERING OFF. OTHERWISE...JUST EXPECT THE COLD AIR CUMULUS TO LINGER WEST OF THE MOUNTAINS...WITH PREDOMINATELY CLEAR SKIES ELSEWHERE.

THE RELATIVELY STRONG ONSHORE FLOW WILL CONTINUE INTO SUNDAY...WITH GUSTY WEST WINDS POSSIBLE...ESPECIALLY IN THE MOUNTAINS AND DESERTS. OTHERWISE...EXPECT DRY AND WARMER CONDITIONS TO

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404262045>

2/5



## FIGURE A-41 SAN DIEGO AREA FORECAST DISCUSSION APRIL 26, 2014 – Pg2

5/18/2018

IEM :: AFD from NWS SGX

.BEACHES...

A LONG-PERIOD SOUTH SWELL SHOULD PEAK THIS AFTERNOON THROUGH SUNDAY AT 4 FT/17-19 SECONDS...LIKELY PRODUCING HIGH SURF OF 5-8 FEET WITH LOCALLY HIGHER SETS AND STRONG RIP CURRENTS ALONG THE ORANGE COUNTY BEACHES. A HIGH SURF ADVISORY IS IN EFFECT FOR THE ORANGE COUNTY COAST THROUGH SUNDAY NIGHT. SAN DIEGO COUNTY WILL BE LESS FAVORED...DUE TO THE SOUTHERLY DIRECTION OF THE SWELL...BUT WILL STILL SEE ELEVATED SURF...STRONG RIP CURRENTS AND ALSO LONGSHORE CURRENTS. A BEACH HAZARDS STATEMENT REMAINS POSTED FOR THAT AREA. THE SWELL WILL SLOWLY LOWER MONDAY THROUGH TUESDAY.

&amp;&amp;

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&amp;&amp;

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...HIGH WIND WARNING UNTIL 9 PM PDT THIS EVENING FOR THE APPLE AND LUCERNE VALLEYS...COACHELLA VALLEY...RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS...SAN DIEGO COUNTY DESERTS...SAN DIEGO COUNTY MOUNTAINS.

WIND ADVISORY UNTIL 9 PM PDT THIS EVENING FOR THE ORANGE COUNTY COASTAL AREAS...SAN BERNARDINO AND RIVERSIDE COUNTY VALLEYS-THE INLAND EMPIRE...SAN DIEGO COUNTY COASTAL AREAS...SAN DIEGO COUNTY VALLEYS...SANTA ANA MOUNTAINS AND FOOTHILLS.

HIGH SURF ADVISORY UNTIL 10 PM PDT SUNDAY FOR THE BEACHES IN THE ORANGE COUNTY COASTAL AREAS.

BEACH HAZARDS STATEMENT THROUGH LATE MONDAY NIGHT FOR THE SAN DIEGO COUNTY COASTAL AREAS.

PZ...SMALL CRAFT ADVISORY UNTIL 11 PM PDT SUNDAY FOR THE WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER EXTENDING 30 TO 60 NM OUT INCLUDING SAN CLEMENTE ISLAND.

SMALL CRAFT ADVISORY UNTIL 11 AM PDT SUNDAY FOR THE COASTAL WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER AND OUT 30 NM.

&amp;&amp;

\$\$

PUBLIC...PALMER  
AVIATION/MARINE...HARRISON

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404262045>

4/5

**Fig A-41:** The National Weather Service Area Forecast Discussion 1245 PM PST (0145 PM PDT) Saturday, April 26, 2014 issued by the San Diego office describes the shifting of the upper level low to the east and the decreasing gusty winds across the mountains and deserts

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404262045>

**FIGURE A-42**  
**PHOENIX AREA FORECAST DISCUSSION APRIL 26, 2014 – Pg1**

5/21/2018

IEM :: AFD from NWS PSR

r  
455  
FXUS65 KPSR 262209  
AFDPSR

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE PHOENIX AZ  
305 PM MST SAT APR 26 2014

.SYNOPSIS...

A COLD FRONT WILL CONTINUE TO MOVE EAST ACROSS THE AREA THIS AFTERNOON...WITH STRONG GUSTY WINDS ABATING LATER TONIGHT. AS THE WINDS DIMINISH...COOLER TEMPERATURES AND SUSPENDED DUST MAY PRODUCE HAZY CONDITIONS AT MANY LOCATIONS INTO SUNDAY MORNING. UNDER SUNNY SKIES...A GRADUAL WARMING TREND WILL TAKE PLACE SUNDAY THROUGH EARLY NEXT WEEK...WITH DAYTIME TEMPERATURES REBOUNDED INTO THE LOW 90S FOR THE LOWER DESERTS.

&&

.DISCUSSION...

A VIGOROUS AND COLD UPPER LEVEL TROUGH CONTINUES TO MOVE EAST ACROSS ARIZONA THIS AFTERNOON...THE ASSOCIATED COLD FRONT DRAPED ACROSS EASTERN PORTIONS OF THE STATE...EXTENDING NORTH FROM DOUGLAS TO SAINT JOHNS. THE FRONT MOVED ACROSS OUR CWA EARLIER TODAY...WIND GUSTS UP TO 43KT/50MPH AND VISIBILITY DOWN TO 1/2 MILE FIRST OBSERVED AT YUMA...THE STRONGER WIND FIELD TRANSLATING EAST WITH TIME ACROSS THE LOWER DESERTS AND GUSTS UP TO 35KT COMMON. WIDELY SCATTERED SHOWERS AND ISOLATED THUNDERSTORMS ACCOMPANIED THE FROPA THROUGH SOUTH-CENTRAL ARIZONA...WITH PEA-SIZED HAIL REPORTED NEAR QUEEN CREEK FROM A FEW STRONGER CELLS THAT FORMED. STRONG GUSTY WINDS ARE EXPECTED TO PERSIST INTO THE EVENING HOURS ALONG WITH AREAS OF BLOWING DUST...MAINLY OVER THE CENTRAL DESERTS. FOR THE MOST PART...EXPECT THE DUST TO REMAIN LOFTED AND SURFACE VISIBILITY TO BE IMPACTED AT TIMES DOWN TO 2-3SM. ANTICIPATE RAPID CLEARING OF CLOUD COVER AS THE TROUGH MOVES EAST AND PRECIPITATION CHANCES DECREASE THIS EVENING...WITH MUCH COOLER OVERNIGHT TEMPERATURES IN THE UPPER 40S AND 50S EXPECTED SUNDAY MORNING.

A DRIER NORTHWESTERLY FLOW ALOFT WITH STRONG ATMOSPHERIC SUBSIDENCE FIELDS SHOULD BEGIN TO STABILIZE THE ATMOSPHERE FOR DRY WEATHER SUNDAY AND MONDAY. THE COOLER RESIDUAL BOUNDARY LAYER WILL ALSO AID IN A STRONGER INVERSION EACH MORNING...CAPPING IN SUSPENDED DUST TO CREATE SOME HAZY/DUSTY CONDITIONS EACH MORNING BEFORE ANY MIXING OCCURS. BELOW NORMAL TEMPERATURES ARE FORECAST SUNDAY...WITH A STRONG WARM-UP MONDAY TO NEAR SEASONAL NORMS.

A STRONG AMPLIFIED UPPER LEVEL RIDGE BUILDS ALONG THE WEST COAST TUESDAY...AND NUDGES INLAND WEDNESDAY AND THURSDAY WITH 576DM HEIGHTS EXTENDING FAR NORTH INTO BRITISH COLUMBIA CANADA. THE GFS AND ECMWF ARE IN FAIRLY GOOD AGREEMENT...WITH SOME SUBTLE DIFFERENCES...THAT THE RIDGE REMAINS IN PLACE SPLAYING 576-582DM HEIGHTS OVER MOST OF ARIZONA AND SOUTHEAST CALIFORNIA...WITH DRY WEATHER AND ABOVE NORMAL TEMPERATURES IN THE LOW 90S FORECAST IN

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404262205>

2/5

## FIGURE A-42

### PHOENIX AREA FORECAST DISCUSSION APRIL 26, 2014 – Pg2

5/21/2018

IEM :: AFD from NWS PSR

THIS TIME FRAME. A FEW WEAK SHORT WAVES SLIDE DOWN THE EAST SIDE OF THE RIDGE AND MAY ENHANCE THE LOW LEVEL GRADIENT...GENERATING GUSTY NORTH-NORTHEAST WINDS OVER THE FORECAST AREA...MAINLY DOWN THE COLORADO RIVER VALLEY TUESDAY...MORE ACROSS SOUTH-CENTRAL ARIZONA WEDNESDAY AND THURSDAY.

&amp;&amp;

.AVIATION...

SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL...  
STRONG COLD FRONT HAS PASSED TO THE EAST WITH SKIES BECOMING MOSTLY CLEAR. WINDS WILL REMAIN STRONG OUT OF THE WEST WITH GUSTS TO 35 KTS AT TIMES THROUGH THE REST OF THE AFTERNOON. DIMINISHING WINDS ARE EXPECTED THIS EVENING INTO TONIGHT WITH WESTERLY WINDS DOMINATING ACROSS MUCH OF THE PHOENIX AREA. DOWNSLOPE EASTERLIES SHOULD KICK IN NEAR SUNRISE SUNDAY AT KIWA.

SOUTHEAST CALIFORNIA/SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...  
GUSTY WINDS TO NEAR 35 KTS THROUGH THE REST OF THE AFTERNOON BEFORE GRADUALLY DIMINISHING THIS EVENING AND OVERNIGHT. CLEAR SKIES AND WINDS 10 KTS OR LESS EXPECTED LATE TONIGHT THROUGH SUNDAY MORNING.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&amp;&amp;

.FIRE WEATHER...

TUESDAY THROUGH SATURDAY...  
HIGH PRESSURE WILL SETTLE OVER THE AREA NEXT WEEK BUT WINDS WILL BE BREEZY DOWN THE COLORADO RIVER ON TUESDAY. AT THIS TIME IT LOOKS LIKE CRITICAL FIRE WEATHER THRESHOLDS COULD BE MET FOR BRIEF TIME TUESDAY AFTERNOON...BUT STILL A FEW DAYS AWAY. COULD ALSO BE LOOKING AT SOME MODERATE DOWNSLOPE WINDS EAST OF PHOENIX AS WELL. STARTING WEDNESDAY...CONDITIONS WILL GRADUALLY BECOME LESS BREEZY. SURFACE DEW POINTS AND HUMIDITIES WILL BE ON THE DRY SIDE WITH AFTERNOON HUMIDITIES IN THE SINGLE DIGITS EACH DAY.

&amp;&amp;

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...WIND ADVISORY 5 AM TO 8 PM MST TODAY AZZ020-025  
WIND ADVISORY FROM 8 AM TO 5 PM MST TODAY AZZ021>024-026-028.  
BLOWING DUST ADVISORY IN EFFECT UNTIL 4 PM MST TODAY  
AZZ020-025.

CA...WIND ADVISORY FROM 5 AM TO 8 PM PDT SATURDAY CAZ030>033.  
BLOWING DUST ADVISORY IN EFFECT UNTIL 4 PM PDT TODAY  
CAZ031>033.

&amp;&amp;

\$\$

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404262205>

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**Fig A-42:** The National Weather Service Area Forecast Discussion 0205 PM PST (305 PM MST) Saturday, April 26, 2014 issued by the Phoenix office describes a cold front moving east with strong gusty winds abating later in the evening  
<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404262205>

# **FIGURE A-43** **SAN DIEGO URGENT WEATHER MESSAGE APRIL 26, 2014 – Pg1**

5/18/2018

IEM :: NPW from NWS SGX

r  
 453  
 WWUS76 KSGX 262259  
 NPWSGX

URGENT - WEATHER MESSAGE  
 NATIONAL WEATHER SERVICE SAN DIEGO CA  
 359 PM PDT SAT APR 26 2014

...PERIODS OF STRONG GUSTY WEST WINDS CONTINUE IN THE MOUNTAINS AND DESERTS...

...WIND ADVISORY IS CANCELLED WEST OF THE MOUNTAINS...

.STRONG ONSHORE FLOW AND GUSTY WESTERLY WINDS WILL CONTINUE ACROSS THE MOUNTAINS AND DESERTS INTO TONIGHT...BUT HAVE WEAKENED WEST OF THE MOUNTAINS. WINDS WILL REMAIN GUSTY ALONG THE RIDGE TOPS AND DESERT SLOPES THROUGH SUNDAY MORNING.

CAZ042-043-048-050-057-270000-  
 /O.CAN.KSGX.WI.Y.0034.000000T0000Z-140427T0400Z/  
 ORANGE COUNTY COASTAL AREAS-SAN DIEGO COUNTY COASTAL AREAS-  
 SAN BERNARDINO AND RIVERSIDE COUNTY VALLEYS-THE INLAND EMPIRE-  
 SAN DIEGO COUNTY VALLEYS-SANTA ANA MOUNTAINS AND FOOTHILLS-  
 359 PM PDT SAT APR 26 2014

...WIND ADVISORY IS CANCELLED...

THE NATIONAL WEATHER SERVICE IN SAN DIEGO HAS CANCELLED THE WIND ADVISORY.

WINDS WILL CONTINUE TO BE GUSTY IN SOME AREAS INTO EARLY EVENING...  
 BUT ARE NO LONGER EXPECTED TO REACH ADVISORY LEVELS.

\$\$

CAZ055-056-058-060>062-270400-  
 /O.CON.KSGX.HW.W.0008.000000T0000Z-140427T0400Z/  
 SAN BERNARDINO COUNTY MOUNTAINS-RIVERSIDE COUNTY MOUNTAINS-  
 SAN DIEGO COUNTY MOUNTAINS-APPLE AND LUCERNE VALLEYS-  
 COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-  
 359 PM PDT SAT APR 26 2014

...HIGH WIND WARNING REMAINS IN EFFECT UNTIL 9 PM PDT THIS EVENING...

A HIGH WIND WARNING REMAINS IN EFFECT UNTIL 9 PM PDT THIS EVENING.

\* TIMING...LOCALLY STRONG AND GUSTY WINDS THROUGH THIS EVENING.

\* LOCATION...STRONGEST SUSTAINED WINDS ALONG MOUNTAIN RIDGE TOPS  
 AND ON ADJACENT DESERT SLOPES. ISOLATED STRONG WIND GUSTS WILL  
 SURFACE OCCASIONALLY ON THE DESERT FLOOR.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pi=NPWSGX&e=201404262259>

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**FIGURE A-43**  
**SAN DIEGO URGENT WEATHER MESSAGE APRIL 26, 2014 – Pg2**

5/18/2018

IEM :: NPW from NWS SGX

\* VISIBILITY...IN THE DESERTS REDUCED AT TIMES BY BLOWING SAND AND DUST.

\* IMPACTS...THE WINDS WILL MAKE DRIVING DIFFICULT...ESPECIALLY FOR MOTORISTS WITH HIGH PROFILE VEHICLES. TRAVEL MAY BE IMPACTED ALONG 1-10 IN THE COACHELLA VALLEY AND I-8 THROUGH THE SAN DIEGO COUNTY MOUNTAINS...AND ALONG STATE HIGHWAYS 18 AND 247 IN SAN BERNARDINO COUNTY. WATCH FOR BROKEN TREE LIMBS AND OTHER DEBRIS ON ROADWAYS.

\* REPORTS...SKY VALLEY GUSTED TO 76 MPH AT 0800 PM. VOLCAN MOUNTAIN GUSTED TO 74 MPH AT 0410 AM. TORO PEAK GUSTED TO 69 MPH AT 1000 PM. HARRISON PARK GUSTED TO 69 MPH AT 0240 AM. LUCKY FIVE RANCH GUSTED TO 68 MPH AT 0250 AM. BURNS CANYON GUSTED TO 67 MPH AT 1051 PM. EDM HILL GUSTED TO 64 MPH AT 0900 PM. BIG BLACK MOUNTAIN GUSTED TO 63 MPH AT 0200 AM... AND BOUCHER HILL GUSTED TO 66 MPH AT 0100 AM.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A HIGH WIND WARNING MEANS A HAZARDOUS HIGH WIND EVENT IS EXPECTED OR OCCURRING. SUSTAINED WIND SPEEDS OF AT LEAST 40 MPH OR GUSTS OF 58 MPH OR MORE CAN LEAD TO PROPERTY DAMAGE.

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JAD

**IOWA STATE  
UNIVERSITY**

College of Ag  
Department of Agronomy

**Department of Agronomy**  
716 Farm House Ln  
Ames, IA 50011

akrherz@iastate.edu  
515-294-5978 phone

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201404262259>

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**Fig A-43:** The National Weather Service Urgent Weather Message 0259 PM PST (0359 PM PDT) Saturday, April 26, 2014 issued by the San Diego office for the San Diego Mountains and Coachella Valley-San Diego Deserts, effective through the evening

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201404262259>

# FIGURE A-44

## PHOENIX URGENT WEATHER MESSAGE APRIL 26, 2014 – Pg1

5/21/2018

IEM :: NPW from NWS PSR

↑  
878  
WWUS75 KPSR 262310  
NPWPSR

URGENT - WEATHER MESSAGE  
NATIONAL WEATHER SERVICE PHOENIX AZ  
410 PM MST SAT APR 26 2014

AZZ020-025-CAZ031>033-270300-  
/O.EXP.KPSR.DU.Y.0003.000000T0000Z-140426T2300Z/  
/O.CON.KPSR.WI.Y.0005.000000T0000Z-140427T0300Z/  
LOWER COLORADO RIVER VALLEY AZ-YUMA/MARTINEZ LAKE AND VICINITY-  
LOWER COLORADO RIVER VALLEY CA-RIVERSIDE COUNTY/EASTERN DESERTS-  
IMPERIAL COUNTY-  
INCLUDING THE CITIES OF...EHRENBERG...PARKER...  
FORTUNA FOOTHILLS...YUMA...BLYTHE...CHIRIACO SUMMIT...  
DESERT CENTER...BRAWLEY...CALEXICO...EL CENTRO  
410 PM MST SAT APR 26 2014 /410 PM PDT SAT APR 26 2014/

...WIND ADVISORY REMAINS IN EFFECT UNTIL 8 PM MST /8 PM PDT/ THIS  
EVENING...  
...BLOWING DUST ADVISORY HAS EXPIRED...

THE BLOWING DUST ADVISORY IS NO LONGER IN EFFECT. A WIND ADVISORY  
REMAINS IN EFFECT UNTIL 8 PM MST /8 PM PDT/ THIS EVENING.

A WIND ADVISORY ALSO REMAINS IN EFFECT UNTIL 8 PM MST /8 PM PDT/  
THIS EVENING.

\* AFFECTED AREA...SOUTHEAST CALIFORNIA AND THE LOWER COLORADO RIVER  
VALLEY... INCLUDING YUMA...BLYTHE...AND PARKER.

\* TIMING...WIND ADVISORY UNTIL 8 PM TONIGHT.

\* WINDS...GUSTY WEST WINDS BETWEEN 25 AND 35 MPH...WITH OCCASIONAL  
GUSTS TO 45 MPH.

\* IMPACTS...TRAVEL WILL BE DIFFICULT FOR HIGH PROFILE VEHICLES ON  
NORTH-SOUTH ORIENTED ROADWAYS. MOTORISTS ON INTERSTATES 8 AND 10  
WILL ALSO EXPERIENCE HIGH WINDS.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN  
30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND  
50 MPH. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY  
FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT  
AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER  
A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA  
CAUTION.

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<https://mesonet.agron.iastate.edu/wx/afos/p.php?pi=NPWPSR&e=201404262310>

2/5



# **FIGURE A-44** **PHOENIX URGENT WEATHER MESSAGE APRIL 26, 2014 – Pg2**

5/21/2018

IEM :: NPW from NWS PSR

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CAZ030-270300-  
 /O.CON.KPSR.WI.Y.0005.000000T0000Z-140427T0300Z/  
 JOSHUA TREE NATIONAL PARK-  
 INCLUDING THE CITY OF...COTTONWOOD VISITOR CENTER  
 410 PM PDT SAT APR 26 2014

...WIND ADVISORY REMAINS IN EFFECT UNTIL 8 PM PDT THIS EVENING...

A WIND ADVISORY REMAINS IN EFFECT UNTIL 8 PM PDT THIS EVENING.

\* AFFECTED AREA...JOSHUA TREE NATIONAL PARK.

\* TIMING...UNTIL 8 PM THIS EVENING.

\* WINDS...GUSTY WEST WINDS BETWEEN 25 AND 35 MPH...WITH OCCASIONAL GUSTS TO 45 MPH.

\* IMPACTS...TRAVEL WILL BE DIFFICULT FOR HIGH PROFILE VEHICLES ON NORTH-SOUTH ORIENTED ROADWAYS. MOTORISTS ON INTERSTATES 8 AND 10 WILL ALSO EXPERIENCE HIGH WINDS. PATCHY BLOWING DUST MAY ALSO DEVELOP DUE TO THE HIGH WINDS WHICH COULD RESULT IN REDUCED VISIBILITIES

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN 30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND 50 MPH. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA CAUTION.

&amp;&amp;

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AZZ021>024-026>028-270015-  
 /O.CON.KPSR.WI.Y.0005.000000T0000Z-140427T0000Z/  
 WEST CENTRAL DESERTS-NORTHWEST MARICOPA COUNTY-  
 GREATER PHOENIX AREA-  
 SOUTHERN GILA COUNTY/TONTO NATIONAL FOREST FOOTHILLS-  
 SOUTHWEST DESERTS-SOUTHWEST MARICOPA COUNTY-  
 NORTHWEST AND NORTH CENTRAL PINAL COUNTY-  
 INCLUDING THE CITIES OF...QUARTZSITE...SALOME...BUCKEYE...  
 NEW RIVER...WICKENBURG...MESA...PHOENIX...GLOBE...MIAMI...  
 SAN CARLOS...SUPERIOR...TOP-OF-THE-WORLD...TACNA...WELLTON...  
 GILA BEND...APACHE JUNCTION...CASA GRANDE...FLORENCE  
 410 PM MST SAT APR 26 2014

...WIND ADVISORY REMAINS IN EFFECT UNTIL 5 PM MST THIS

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201404262310>

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**FIGURE A-44**  
**PHOENIX URGENT WEATHER MESSAGE APRIL 26, 2014 – Pg3**

5/21/2018

IEM :: NPW from NWS PSR

AFTERNOON...

A WIND ADVISORY REMAINS IN EFFECT UNTIL 5 PM MST THIS AFTERNOON.

\* AFFECTED AREA...THE PHOENIX METRO AREA...THE OPEN DESERTS OF  
SOUTHWEST ARIZONA...SOUTHERN GILA COUNTY.

\* TIMING...UNTIL 5 PM SATURDAY.

\* WINDS...GUSTY WEST WINDS BETWEEN 25 AND 35 MPH...WITH  
OCCASIONAL GUSTS TO 45 MPH ARE POSSIBLE.\* IMPACTS...TRAVEL WILL BE DIFFICULT FOR HIGH PROFILE VEHICLES  
ON NORTH-SOUTH ORIENTED ROADWAYS. MOTORISTS ON INTERSTATES 8  
AND 10 WILL ALSO EXPERIENCE HIGH WINDS. PATCHY BLOWING DUST  
MAY ALSO DEVELOP DUE TO THE HIGH WINDS WHICH COULD RESULT IN  
REDUCED VISIBILITIES ACROSS THE DESERTS.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN  
30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND  
50 MPH. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY  
FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT  
AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER  
A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA  
CAUTION.

&amp;&amp;

\$\$

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**IOWA STATE  
UNIVERSITY**

College of Ag  
Department of Agronomy

**Department of Agronomy**  
716 Farm House Ln  
Ames, IA 50011

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201404262310>

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**Fig A-44:** The National Weather Service Urgent Weather Message 0310 PM PST (0410 PM MST) Saturday, April 26, 2014 issued by the Phoenix office for Imperial County, Riverside County and Arizona effective through the evening. The Urgent Weather Message included the expiration of the Blowing Dust Advisory for Imperial County  
<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201404262310>

# FIGURE A-45 PHOENIX URGENT WEATHER MESSAGE APRIL 26, 2014 – Pg1

5/21/2018

IEM :: NPW from NWS PSR

r  
025  
WWS75 KPSR 270006  
NPWPSR

URGENT - WEATHER MESSAGE  
NATIONAL WEATHER SERVICE PHOENIX AZ  
506 PM MST SAT APR 26 2014

AZZ021>024-026>028-270115-  
/O.EXP.KPSR.WI.Y.0005.00000T0000Z-140427T0000Z/  
WEST CENTRAL DESERTS-NORTHWEST MARICOPA COUNTY-  
GREATER PHOENIX AREA-  
SOUTHERN GILA COUNTY/TONTO NATIONAL FOREST FOOTHILLS-  
SOUTHWEST DESERTS-SOUTHWEST MARICOPA COUNTY-  
NORTHWEST AND NORTH CENTRAL PINAL COUNTY-  
INCLUDING THE CITIES OF...QUARTZSITE...SALOME...BUCKEYE...  
NEW RIVER...WICKENBURG...MESA...PHOENIX...GLOBE...MIAMI...  
SAN CARLOS...SUPERIOR...TOP-OF-THE-WORLD...TACNA...WELLTON...  
GILA BEND...APACHE JUNCTION...CASA GRANDE...FLORENCE  
506 PM MST SAT APR 26 2014

...WIND ADVISORY HAS EXPIRED...

THE WIND ADVISORY IS NO LONGER IN EFFECT.

GUSTY WEST WINDS WERE STILL PRESENT IN THE WAKE OF A DEPARTING COLD  
FRONT...HOWEVER AS OF 5 PM WIND SPEEDS HAD FALLEN BELOW WIND ADVISORY  
THRESHOLDS. IT WILL REMAIN BREEZY TO LOCALLY WINDY INTO THE EARLY  
EVENING...AND WINDS ARE EXPECTED TO DIMINISH FURTHER FOLLOWING SUNSET  
AND LOSS OF MIXING. AS A RESULT THE WIND ADVISORY HAS BEEN ALLOWED TO  
EXPIRE.

\$\$

AZZ020-025-CAZ030>033-270300-  
/O.CON.KPSR.WI.Y.0005.00000T0000Z-140427T0300Z/  
LOWER COLORADO RIVER VALLEY AZ-YUMA/MARTINEZ LAKE AND VICINITY-  
JOSHUA TREE NATIONAL PARK-LOWER COLORADO RIVER VALLEY CA-  
RIVERSIDE COUNTY/EASTERN DESERTS-IMPERIAL COUNTY-  
INCLUDING THE CITIES OF...EHRENBERG...PARKER...  
FORTUNA FOOTHILLS...YUMA...COTTONWOOD VISITOR CENTER...BLYTHE...  
CHIRIACO SUMMIT...DESERT CENTER...BRAWLEY...CALEXICO...EL CENTRO  
506 PM MST SAT APR 26 2014 /506 PM PDT SAT APR 26 2014/

...WIND ADVISORY REMAINS IN EFFECT UNTIL 8 PM MST /8 PM PDT/ THIS  
EVENING...

A WIND ADVISORY REMAINS IN EFFECT UNTIL 8 PM MST /8 PM PDT/ THIS  
EVENING.

A WIND ADVISORY ALSO REMAINS IN EFFECT UNTIL 8 PM MST /8 PM PDT/  
THIS EVENING.

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201404270006>

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**FIGURE A-45**  
**PHOENIX URGENT WEATHER MESSAGE APRIL 26, 2014 – Pg2**

5/21/2018

IEM :: NPW from NWS PSR

\* AFFECTED AREA...SOUTHEAST CALIFORNIA AND THE LOWER COLORADO RIVER VALLEY...JOSHUA TREE NATIONAL PARK...INCLUDING YUMA... BLYTHE...PARKER AND LOST HORSE.

\* TIMING...WIND ADVISORY UNTIL 8 PM TONIGHT.

\* WINDS...GUSTY WEST WINDS BETWEEN 25 AND 35 MPH...WITH OCCASIONAL GUSTS TO 45 MPH.

\* IMPACTS...TRAVEL WILL BE DIFFICULT FOR HIGH PROFILE VEHICLES ON NORTH-SOUTH ORIENTED ROADWAYS. MOTORISTS ON INTERSTATES 8 AND 10 WILL ALSO EXPERIENCE HIGH WINDS.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN 30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND 50 MPH. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA CAUTION.

&&

\$\$

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**IOWA STATE  
UNIVERSITY**

College of Ag

Department of Agronomy

**Department of Agronomy**

716 Farm House Ln

Ames, IA 50011

akrherz@iastate.edu

515-294-5978 phone

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201404270006>

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**Fig A-45:** The National Weather Service Urgent Weather Message 0406 PM PST (0506 PM MST) Saturday, April 26, 2014 issued by the Phoenix office for Imperial County, Riverside County and Arizona effective through the evening

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201404270006>

# **FIGURE A-46** **SAN DIEGO PUBLIC INFORMATION STATEMENT APRIL 26, 2014 – Pg1**

5/18/2018

IEM :: PNS from NWS SGX

r  
 475  
 NOUS46 KSGX 270235  
 PNSSGX  
 CAZ042-043-048-050-055>058-060>062-271435-

PUBLIC INFORMATION STATEMENT...CORRECTED  
 NATIONAL WEATHER SERVICE SAN DIEGO CA  
 735 PM PDT SAT APR 26 2014

...LATEST WIND REPORTS...

LOCATION	SPEED	TIME/DATE	LAT/LON
VOLCAN MOUNTAIN	74 MPH	0410 AM 04/26	33.10N/116.58W
HARRISON PARK	69 MPH	0240 AM 04/26	33.04N/116.56W
LUCKY FIVE RANCH	68 MPH	0250 AM 04/26	32.93N/116.53W
BURNS CANYON	67 MPH	1051 PM 04/25	34.21N/116.62W
PAUMA VALLEY (7 E)	65 MPH	0228 AM 04/26	33.31N/116.86W
TORO PEAK	61 MPH	0915 AM 04/26	33.52N/116.43W
EDOM HILL (6 NE PSP)	58 MPH	1050 AM 04/26	33.87N/116.43W
BELL CANYON	57 MPH	1251 AM 04/26	33.55N/117.57W
MISSION TRAILS	56 MPH	0210 AM 04/26	32.84N/117.06W
LAKE CUYAMACA	56 MPH	0240 AM 04/26	33.00N/116.60W
BORREGO SPRINGS (3 W)	55 MPH	0430 AM 04/26	33.26N/116.40W
HIGHLAND SPRINGS	54 MPH	0216 AM 04/26	33.88N/116.95W
BOULEVARD WEST	53 MPH	0800 AM 04/26	32.66N/116.29W
LYONS PEAK	53 MPH	0245 AM 04/26	32.70N/116.76W
WHITewater RAWS	53 MPH	0150 PM 04/26	33.95N/116.66W
SILL HILL	52 MPH	0220 AM 04/26	32.95N/116.64W
WHITE WATER (2 S)	52 MPH	0855 PM 04/25	33.90N/116.64W
BORREGO SPRINGS	52 MPH	0853 PM 04/25	33.19N/116.28W
IN KO PAH	51 MPH	0620 AM 04/26	32.64N/116.12W
OTAY MOUNTAIN	50 MPH	0400 AM 04/26	32.60N/116.84W
CRESTWOOD	50 MPH	0830 AM 04/26	32.70N/116.35W
OTAY MOUNTAIN	50 MPH	0414 AM 04/26	32.60N/116.84W
TEMESCAL	50 MPH	0341 AM 04/26	33.76N/117.50W
EAST WARNERS	49 MPH	0220 AM 04/26	33.23N/116.61W
NORTH BOULDER CREEK	49 MPH	0230 AM 04/26	32.99N/116.67W
THERMAL AIRPORT	49 MPH	1119 PM 04/25	33.63N/116.16W
EL CARISO	49 MPH	0220 AM 04/26	33.65N/117.41W
BIG BLACK MOUNTAIN	49 MPH	0217 AM 04/26	33.16N/116.81W
JULIAN (4 W)	48 MPH	0210 AM 04/26	33.08N/116.66W
BORREGO SPRINGS (2 E)	48 MPH	0420 AM 04/26	33.26N/116.35W
CORTE MADERA	48 MPH	0400 AM 04/26	32.78N/116.55W
WHITewater	48 MPH	0145 PM 04/26	33.96N/116.59W
JULIAN CDF	48 MPH	0455 AM 04/26	33.08N/116.59W
RANCHITA (RAWS)	48 MPH	0807 AM 04/26	33.22N/116.50W
MATAGUAY	48 MPH	0340 AM 04/26	33.22N/116.70W
INAJA PARK (SANTA YSABEL)	48 MPH	0240 AM 04/26	33.10N/116.67W
KEENWILD RAWS	47 MPH	0217 AM 04/26	33.67N/116.77W
PINYON	47 MPH	0636 AM 04/26	33.58N/116.45W
WEST RANCHO BERNARDO	46 MPH	0200 AM 04/26	33.03N/117.12W

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=PNSSGX&e=201404270235>

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**FIGURE A-46**  
**SAN DIEGO PUBLIC INFORMATION STATEMENT APRIL 26, 2014 – Pg2**

5/18/2018 IEM :: PNS from NWS SGX

MT PALOMAR	46 MPH	0320 AM 04/26	33.35N/116.86W
CABAZON	46 MPH	0214 AM 04/26	33.93N/116.81W
COACHELLA	46 MPH	1105 PM 04/25	33.67N/116.15W
CORONADO CAYS	45 MPH	0214 AM 04/26	32.63N/117.14W
ROUND POTRERO	45 MPH	0410 AM 04/26	32.65N/116.63W
GUATAY	45 MPH	0830 AM 04/26	32.86N/116.57W
CAMPO	45 MPH	0732 AM 04/26	32.62N/116.47W
RANCHITA	45 MPH	0250 AM 04/26	33.21N/116.51W
WARNERS	45 MPH	0240 AM 04/26	33.25N/116.70W
RED BEACH AIRPORT	45 MPH	0107 AM 04/26	33.29N/117.46W
RAINBOW (1 E)	44 MPH	0135 AM 04/26	33.42N/117.12W
WEST WYNOLA	44 MPH	0400 AM 04/26	33.11N/116.65W
NEWPORT PIER	44 MPH	0238 AM 04/26	33.61N/117.93W
CAMERON (7 N CAMPO)	44 MPH	0300 AM 04/26	32.71N/116.47W
PALM SPRINGS AIRPORT	44 MPH	0348 AM 04/26	33.83N/116.51W
VICTORVILLE AIRPORT	44 MPH	0355 PM 04/26	34.60N/117.38W
SAN CLEMENTE RIDGE	43 MPH	1250 AM 04/26	33.44N/117.59W
MIRAMAR	43 MPH	0155 AM 04/26	32.87N/117.14W
GOOSE VALLEY RAWS	43 MPH	0252 AM 04/26	33.08N/116.88W
IMPERIAL BEACH (NAS)	43 MPH	0218 AM 04/26	32.57N/117.12W
OCOTILLO WELLS	43 MPH	0748 PM 04/25	33.15N/116.18W
LAKE MATHEWS	43 MPH	0816 PM 04/25	33.82N/117.46W
JULIAN	43 MPH	0430 AM 04/26	33.08N/116.59W
PERRIS (2 NW)	43 MPH	0130 AM 04/26	33.80N/117.26W
SCHOOL HOUSE CANYON (5 NW JULI	42 MPH	0340 AM 04/26	33.15N/116.64W
WEST SANTA YSABEL	42 MPH	0240 AM 04/26	33.09N/116.69W
PALOMAR MTN	42 MPH	0415 AM 04/26	33.35N/116.86W
FREMONT CANYON	42 MPH	1251 AM 04/26	33.81N/117.71W
SIERRA PEAK	42 MPH	0201 AM 04/26	33.85N/117.65W
MESA GRANDE	42 MPH	0440 AM 04/26	33.17N/116.76W
APPLE VALLEY 2	41 MPH	0950 PM 04/25	34.59N/117.17W
SANTA ROSA PLATEAU	41 MPH	0254 AM 04/26	33.52N/117.23W
VIEJAS GRADE	41 MPH	0230 AM 04/26	32.86N/116.66W
VIEJAS	41 MPH	0310 AM 04/26	32.85N/116.70W
SCRIPPS RANCH	41 MPH	0210 AM 04/26	32.89N/117.09W
HESPERIA (3 SW)	41 MPH	0812 PM 04/25	34.37N/117.34W
VISTA GRANDE	41 MPH	0101 AM 04/26	33.84N/116.81W
THOUSAND PALMS	41 MPH	0255 AM 04/26	33.82N/116.40W
OTAY	40 MPH	0230 AM 04/26	32.72N/116.93W
SPANGLER PEAK (SD COUNTRY ESTA	40 MPH	0230 AM 04/26	33.00N/116.79W
LAGUNA	40 MPH	0310 AM 04/26	32.85N/116.47W
DEL MAR HEIGHTS	40 MPH	0150 AM 04/26	32.96N/117.22W
LA POSTA	40 MPH	0720 AM 04/26	32.71N/116.40W
SUNSET OAKS (4 NE RAMONA)	40 MPH	0240 AM 04/26	33.07N/116.81W
DEHESA ROAD	40 MPH	0240 AM 04/26	32.79N/116.84W
LOS COYOTES (3 SE WARNER SPRIN	40 MPH	0230 AM 04/26	33.26N/116.59W
EL MIRAGE	40 MPH	0226 PM 04/26	34.63N/117.55W
MISSION BEACH	40 MPH	0324 AM 04/26	32.78N/117.25W

OBSERVATIONS ARE COLLECTED FROM A VARIETY OF SOURCES WITH VARYING EQUIPMENT AND EXPOSURE. NOT ALL DATA LISTED ARE CONSIDERED OFFICIAL.

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<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=PNSSGX&e=201404270235>

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**Fig A-46:** The National Weather Service Public Information Statement (Corrected) 0635 PM PST (0735 PM PDT) Saturday, April 26, 2014 issued by the San Diego office provides corrected latest wind reports for several areas within the San Diego service area <https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=PNSSGX&e=201404270235>



# **FIGURE A-47** **SAN DIEGO PUBLIC INFORMATION STATEMENT APRIL 26, 2014 – Pg1**

5/18/2018

IEM :: PNS from NWS SGX

r  
 039  
 NOUS46 KSGX 270245 AAA  
 PNSSGX  
 CAZ042-043-048-050-055>058-060>062-271435-

PUBLIC INFORMATION STATEMENT...CORRECTED  
 NATIONAL WEATHER SERVICE SAN DIEGO CA  
 745 PM PDT SAT APR 26 2014

...STRONGEST WIND GUSTS OVER PAST 24 HOURS...

LOCATION	SPEED	TIME/DATE	LAT/LON
SKY VALLEY	83 MPH	0800 AM 04/26	33.88N/116.33W
VOLCAN MOUNTAIN	74 MPH	0410 AM 04/26	33.10N/116.58W
HARRISON PARK	69 MPH	0240 AM 04/26	33.04N/116.56W
LUCKY FIVE RANCH	68 MPH	0250 AM 04/26	32.93N/116.53W
BURNS CANYON	67 MPH	1051 PM 04/25	34.21N/116.62W
PAUMA VALLEY (7 E)	65 MPH	0228 AM 04/26	33.31N/116.86W
TORO PEAK	61 MPH	0915 AM 04/26	33.52N/116.43W
EDOM HILL (6 NE PSP)	58 MPH	1050 AM 04/26	33.87N/116.43W
BELL CANYON	57 MPH	1251 AM 04/26	33.55N/117.57W
MISSION TRAILS	56 MPH	0210 AM 04/26	32.84N/117.06W
LAKE CUYAMACA	56 MPH	0240 AM 04/26	33.00N/116.60W
BORREGO SPRINGS (3 W)	55 MPH	0430 AM 04/26	33.26N/116.40W
HIGHLAND SPRINGS	54 MPH	0216 AM 04/26	33.88N/116.95W
BOULEVARD WEST	53 MPH	0800 AM 04/26	32.66N/116.29W
LYONS PEAK	53 MPH	0245 AM 04/26	32.70N/116.76W
WHITEWATER RAWS	53 MPH	0150 PM 04/26	33.95N/116.66W
SILL HILL	52 MPH	0220 AM 04/26	32.95N/116.64W
WHITE WATER (2 S)	52 MPH	0855 PM 04/25	33.90N/116.64W
BORREGO SPRINGS	52 MPH	0853 PM 04/25	33.19N/116.28W
IN KO PAH	51 MPH	0620 AM 04/26	32.64N/116.12W
OTAY MOUNTAIN	50 MPH	0400 AM 04/26	32.60N/116.84W
CRESTWOOD	50 MPH	0830 AM 04/26	32.70N/116.35W
OTAY MOUNTAIN	50 MPH	0414 AM 04/26	32.60N/116.84W
TEMESCAL	50 MPH	0341 AM 04/26	33.76N/117.50W
EAST WARNERS	49 MPH	0220 AM 04/26	33.23N/116.61W
NORTH BOULDER CREEK	49 MPH	0230 AM 04/26	32.99N/116.67W
THERMAL AIRPORT	49 MPH	1119 PM 04/25	33.63N/116.16W
EL CARISO	49 MPH	0220 AM 04/26	33.65N/117.41W
BIG BLACK MOUNTAIN	49 MPH	0217 AM 04/26	33.16N/116.81W
JULIAN (4 W)	48 MPH	0210 AM 04/26	33.08N/116.66W
BORREGO SPRINGS (2 E)	48 MPH	0420 AM 04/26	33.26N/116.35W
CORTE MADERA	48 MPH	0400 AM 04/26	32.78N/116.55W
WHITEWATER	48 MPH	0145 PM 04/26	33.96N/116.59W
JULIAN CDF	48 MPH	0455 AM 04/26	33.08N/116.59W
RANCHITA (RAWS)	48 MPH	0807 AM 04/26	33.22N/116.50W
MATAGUAY	48 MPH	0340 AM 04/26	33.22N/116.70W
INAJA PARK (SANTA YSABEL)	48 MPH	0240 AM 04/26	33.10N/116.67W
KEENWILD RAWS	47 MPH	0217 AM 04/26	33.67N/116.77W
PINYON	47 MPH	0636 AM 04/26	33.58N/116.45W
WEST RANCHO BERNARDO	46 MPH	0200 AM 04/26	33.03N/117.12W

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=PNSSGX&e=201404270245>

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**FIGURE A-47**  
**SAN DIEGO PUBLIC INFORMATION STATEMENT APRIL 26, 2014 – Pg2**

5/18/2018 IEM :: PNS from NWS SGX

MT PALOMAR	46 MPH	0320 AM 04/26	33.35N/116.86W
CABAZON	46 MPH	0214 AM 04/26	33.93N/116.81W
COACHELLA	46 MPH	1105 PM 04/25	33.67N/116.15W
CORONADO CAYS	45 MPH	0214 AM 04/26	32.63N/117.14W
ROUND POTRERO	45 MPH	0410 AM 04/26	32.65N/116.63W
GUATAY	45 MPH	0830 AM 04/26	32.86N/116.57W
CAMPO	45 MPH	0732 AM 04/26	32.62N/116.47W
RANCHITA	45 MPH	0250 AM 04/26	33.21N/116.51W
WARNERS	45 MPH	0240 AM 04/26	33.25N/116.70W
RED BEACH AIRPORT	45 MPH	0107 AM 04/26	33.29N/117.46W
RAINBOW (1 E)	44 MPH	0135 AM 04/26	33.42N/117.12W
WEST WYNOLA	44 MPH	0400 AM 04/26	33.11N/116.65W
NEWPORT PIER	44 MPH	0238 AM 04/26	33.61N/117.93W
CAMERON (7 N CAMPO)	44 MPH	0300 AM 04/26	32.71N/116.47W
PALM SPRINGS AIRPORT	44 MPH	0348 AM 04/26	33.83N/116.51W
VICTORVILLE AIRPORT	44 MPH	0355 PM 04/26	34.60N/117.38W
SAN CLEMENTE RIDGE	43 MPH	1250 AM 04/26	33.44N/117.59W
MIRAMAR	43 MPH	0155 AM 04/26	32.87N/117.14W
GOOSE VALLEY RAWS	43 MPH	0252 AM 04/26	33.08N/116.88W
IMPERIAL BEACH (NAS)	43 MPH	0218 AM 04/26	32.57N/117.12W
OCOTILLO WELLS	43 MPH	0748 PM 04/25	33.15N/116.18W
LAKE MATHEWS	43 MPH	0816 PM 04/25	33.82N/117.46W
JULIAN	43 MPH	0430 AM 04/26	33.08N/116.59W
PERRIS (2 NW)	43 MPH	0130 AM 04/26	33.80N/117.26W
SCHOOL HOUSE CANYON (5 NW JULI)	42 MPH	0340 AM 04/26	33.15N/116.64W
WEST SANTA YSABEL	42 MPH	0240 AM 04/26	33.09N/116.69W
PALOMAR MTN	42 MPH	0415 AM 04/26	33.35N/116.86W
FREMONT CANYON	42 MPH	1251 AM 04/26	33.81N/117.71W
SIERRA PEAK	42 MPH	0201 AM 04/26	33.85N/117.65W
MESA GRANDE	42 MPH	0440 AM 04/26	33.17N/116.76W
APPLE VALLEY 2	41 MPH	0950 PM 04/25	34.59N/117.17W
SANTA ROSA PLATEAU	41 MPH	0254 AM 04/26	33.52N/117.23W
VIEJAS GRADE	41 MPH	0230 AM 04/26	32.86N/116.66W
VIEJAS	41 MPH	0310 AM 04/26	32.85N/116.70W
SCRIPPS RANCH	41 MPH	0210 AM 04/26	32.89N/117.09W
HESPERIA (3 SW)	41 MPH	0812 PM 04/25	34.37N/117.34W
VISTA GRANDE	41 MPH	0101 AM 04/26	33.84N/116.81W
THOUSAND PALMS	41 MPH	0255 AM 04/26	33.82N/116.40W
OTAY	40 MPH	0230 AM 04/26	32.72N/116.93W
SPANGLER PEAK (SD COUNTRY ESTA	40 MPH	0230 AM 04/26	33.00N/116.79W
LAGUNA	40 MPH	0310 AM 04/26	32.85N/116.47W
DEL MAR HEIGHTS	40 MPH	0150 AM 04/26	32.96N/117.22W
LA POSTA	40 MPH	0720 AM 04/26	32.71N/116.40W
SUNSET OAKS (4 NE RAMONA)	40 MPH	0240 AM 04/26	33.07N/116.81W
DEHESA ROAD	40 MPH	0240 AM 04/26	32.79N/116.84W
LOS COYOTES (3 SE WARNER SPRIN	40 MPH	0230 AM 04/26	33.26N/116.59W
EL MIRAGE	40 MPH	0226 PM 04/26	34.63N/117.55W
MISSION BEACH	40 MPH	0324 AM 04/26	32.78N/117.25W

OBSERVATIONS ARE COLLECTED FROM A VARIETY OF SOURCES WITH VARYING EQUIPMENT AND EXPOSURE. NOT ALL DATA LISTED ARE CONSIDERED OFFICIAL.

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<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=PNSSGX&e=201404270245>

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**Fig A-47:** The National Weather Service Public Information Statement (Corrected) 0645 PM PST (0745 PM PDT) Saturday, April 26, 2014 issued by the San Diego office provides corrected strongest wind gusts reports for several areas within the San Diego service area <https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=PNSSGX&e=201404270245>

## FIGURE A-48 PHOENIX URGENT WEATHER MESSAGE APRIL 26, 2014

5/21/2018 IEM :: NPW from NWS PSR

191  
WMUS75 KPSR 270302  
NPWPSR

URGENT - WEATHER MESSAGE  
NATIONAL WEATHER SERVICE PHOENIX AZ  
802 PM MST SAT APR 26 2014

.GUSTY WEST WINDS TAPERING OFF THIS EVENING.

AZZ020-025-CAZ030>033-270415-  
/O.EXP.KPSR.WI.Y.0005.000000T0000Z-140427T0300Z/  
LOWER COLORADO RIVER VALLEY AZ-YUMA/MARTINEZ LAKE AND VICINITY-  
JOSHUA TREE NATIONAL PARK-LOWER COLORADO RIVER VALLEY CA-  
RIVERSIDE COUNTY/EASTERN DESERTS-IMPERIAL COUNTY-  
INCLUDING THE CITIES OF...EHRENBERG...PARKER...  
FORTUNA FOOTHILLS...YUMA...COTTONWOOD VISITOR CENTER...BLYTHE...  
CHIRIACO SUMMIT...DESERT CENTER...BRAWLEY...CALEXICO...EL CENTRO  
802 PM MST SAT APR 26 2014 /802 PM PDT SAT APR 26 2014/

...WIND ADVISORY WILL EXPIRE AT 8 PM MST /8 PM PDT/ THIS  
EVENING...

THE WIND ADVISORY WILL EXPIRE AT 8 PM MST /8 PM PDT/ THIS  
EVENING.

GUSTY WEST WINDS WHICH DEVELOPED IN THE WAKE OF A DEPARTED COLD FRONT  
CONTINUED TO BLOW ACROSS PORTIONS OF SOUTHEAST CALIFORNIA THIS  
EVENING...HOWEVER THEY HAD TAPERED OFF FOLLOWING SUNSET AND THE  
ASSOCIATED LOSS OF MIXING. WEST WINDS WILL REMAIN ON THE BREEZY OR  
LOCALLY WINDY SIDE THROUGH MIDNIGHT...AND AN ISOLATED GUST TO NEAR 40  
MPH IS STILL POSSIBLE IN FAVORED LOCATIONS SUCH AS EL CENTRO OR THE  
FAR SOUTHWEST CORNER OF IMPERIAL COUNTY. MOST LOCALES WILL SEE WINDS  
BELOW 30 MPH FOR THE REMAINDER OF THE EVENING. AS A RESULT THE WIND  
ADVISORY WILL BE ALLOWED TO EXPIRE AT 8 PM.

\$\$

VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

**IOWA STATE  
UNIVERSITY**

College of Ag  
Department of Agronomy

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201404270302>

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**Fig A-48:** The National Weather Service Urgent Weather Message 0702 PM PST (0802 PM MST) Saturday, April 26, 2014 issued by the Phoenix office for Imperial and Riverside Counties contained a brief discussion of gusty west winds that continued to blow across portions of southeast California during the evening as the cold front departed  
<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201404270302>

**FIGURE A-49**  
**SAN DIEGO URGENT WEATHER MESSAGE APRIL 26, 2014 – Pg1**

5/18/2018

IEM :: NPW from NWS SGX

1  
 982  
 WWUS76 KSGX 270327  
 NPWSGX

URGENT - WEATHER MESSAGE  
 NATIONAL WEATHER SERVICE SAN DIEGO CA  
 827 PM PDT SAT APR 26 2014

...PERIODS OF GUSTY WINDS WILL CONTINUE THROUGH SUNDAY NIGHT...

.SURFACE LOW PRESSURE OVER THE GREAT BASIN AND STRONG WINDS ALOFT WILL CONTINUE PERIODS OF GUSTY WINDS OVER THE MOUNTAIN RIDGES AND ONTO THE DESERTS SLOPES AND FOOTHILLS THROUGH SUNDAY NIGHT. THESE WINDS MAY LOCALLY REACH THE DESERT FLOOR...BUT WILL MAINLY AFFECT THE ELEVATED TERRAIN.

CAZ055-056-058-060>062-271130-  
 /O.CAN.KSGX.HW.W.0008.000000T0000Z-140427T0400Z/  
 /O.NEW.KSGX.WI.Y.0035.140427T0400Z-140428T1000Z/  
 SAN BERNARDINO COUNTY MOUNTAINS-RIVERSIDE COUNTY MOUNTAINS-  
 SAN DIEGO COUNTY MOUNTAINS-APPLE AND LUCERNE VALLEYS-  
 COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-  
 827 PM PDT SAT APR 26 2014

...WIND ADVISORY IN EFFECT UNTIL 3 AM PDT MONDAY...  
 ...HIGH WIND WARNING IS CANCELLED...

THE NATIONAL WEATHER SERVICE IN SAN DIEGO HAS ISSUED A WIND ADVISORY...WHICH IS IN EFFECT UNTIL 3 AM PDT MONDAY. THE HIGH WIND WARNING HAS BEEN CANCELLED.

- \* WINDS...20 TO 35 MPH WITH GUSTS 45 TO 55 MPH. ISOLATED GUSTS TO 65 MPH THROUGH WIND-PRONE AREAS.
- \* TIMING...STRONGEST WINDS OVERNIGHT AND AGAIN LATE SUNDAY INTO SUNDAY NIGHT. WINDS WEAKENING SLIGHTLY SUNDAY MORNING THROUGH MIDDAY.
- \* LOCATION...STRONGEST SUSTAINED WINDS ALONG MOUNTAIN RIDGES AND ON ADJACENT DESERT SLOPES. ISOLATED STRONG WIND GUSTS WILL SURFACE OCCASIONALLY NEAR THE FOOTHILLS AND ON THE DESERT FLOOR.

\* VISIBILITY...IN THE DESERTS REDUCED AT TIMES BY BLOWING SAND AND DUST.

\* IMPACTS...THE WINDS WILL MAKE DRIVING DIFFICULT...ESPECIALLY FOR MOTORISTS WITH HIGH PROFILE VEHICLES. TRAVEL MAY BE IMPACTED ALONG I-10 IN THE COACHELLA VALLEY AND I-8 THROUGH THE SAN DIEGO COUNTY MOUNTAINS...AND ALONG STATE HIGHWAYS 18 AND 247 IN SAN BERNARDINO COUNTY. WATCH FOR BROKEN TREE LIMBS AND OTHER DEBRIS ON ROADWAYS.

\* REPORTED WIND GUSTS TODAY...SKY VALLEY 83 MPH AT 8 AM. VOLCAN

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201404270327>

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**FIGURE A-49**  
**SAN DIEGO URGENT WEATHER MESSAGE APRIL 26, 2014 – Pg2**

5/18/2018

IEM :: NPW from NWS SGX

MOUNTAIN 75 MPH AT 9 AM. HARRISON PARK 69 MPH AT 240 AM. LUCKY  
 FIVE RANCH 68 MPH AT 250 AM. BURNS CANYON 49 MPH AT 7 AM. BIG  
 BLACK MOUNTAIN 63 MPH AT 200 AM. FOR A COMPLETE LIST PLEASE SEE  
 LAXPNSSGX.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT WINDS OF 35 MPH ARE EXPECTED. WINDS  
 THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH  
 PROFILE VEHICLES. USE EXTRA CAUTION.

&&

\$\$

SGX

**IOWA STATE  
 UNIVERSITY**

College of Ag  
 Department of Agronomy

**Department of Agronomy**  
 716 Farm House Ln  
 Ames, IA 50011  
 akrherz@iastate.edu  
 515-294-5978 phone

☐ Facebook

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<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201404270327>

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**Fig A-49:** The National Weather Service Urgent Weather Message 0727 PM PST (0827 PM PDT) Saturday, April 26, 2014 issued by the San Diego office for the San Diego Mountains and Coachella Valley-San Diego Deserts cancelled the High Wind Warning but maintained the wind advisory through Monday morning

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201404270327>

## FIGURE A-50 PHOENIX AREA FORECAST DISCUSSION APRIL 26, 2014 – Pg1

5/21/2018

IEM :: AFD from NWS PSR

7  
507  
FXUS65 KPSR 270415  
AFDPSR

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE PHOENIX AZ  
915 PM MST SAT APR 26 2014

### .SYNOPSIS...

A COLD FRONT WILL CONTINUE TO MOVE EAST ACROSS THE AREA THIS AFTERNOON...WITH STRONG GUSTY WINDS ABATING LATER TONIGHT. AS THE WINDS DIMINISH...COOLER TEMPERATURES AND SUSPENDED DUST MAY PRODUCE HAZY CONDITIONS AT MANY LOCATIONS INTO SUNDAY MORNING. UNDER SUNNY SKIES...A GRADUAL WARMING TREND WILL TAKE PLACE SUNDAY THROUGH EARLY NEXT WEEK...WITH DAYTIME TEMPERATURES REBOUNDED INTO THE LOW 90S FOR THE LOWER DESERTS.

&&

### .DISCUSSION...

VIGOROUS UPPER LOW CONTINUED TO MOVE EASTWARD AND INTO NEW MEXICO THIS EVENING...WITH A DRY SUBSIDENT WESTERLY TO NWLY FLOW ALOFT OVERSPREADING THE REGION BEHIND THE LOW AND ASSOCIATED COLD FRONT. AT 8 PM TEMPS WERE RUNNING 10-18 DEGREES COOLER THAN 24 HOURS AGO. IR IMAGERY SHOWED FEW LINGERING CU OVER SRN GILA COUNTY OTHERWISE SKIES WERE CLEAR OR MOSTLY CLEAR ELSEWHERE. SURFACE DEWPOINTS WERE RUNNING IN THE 20S ACROSS THE CENTRAL AZ DESERTS...AND MOSTLY IN THE 30S FROM THE CO RIVER WESTWARD. WINDS HAVE BEEN TAPERING OFF GRADUALLY OVER THE PAST FEW HOURS AND WERE WELL BELOW WIND ADVISORY LEVELS ACROSS MOST OF THE CWA. AS A RESULT ALL WIND ADVISORY AND BLOWING DUST ADVISORY PRODUCTS HAVE ALREADY EXPIRED. FOR THE REST OF TONIGHT EXPECT MOSTLY CLEAR SKIES ALONG WITH CONTINUING DIMINISHING WIND...AND MUCH COOLER OVERNIGHT TEMPERATURES. FORECASTS HAVE BEEN UPDATED TO REMOVE PRODUCT HEADERS AND REFLECT CURRENT SKY AND WEATHER TRENDS.

### .PREVIOUS DISCUSSION...

A VIGOROUS AND COLD UPPER LEVEL TROUGH CONTINUES TO MOVE EAST ACROSS ARIZONA THIS AFTERNOON...THE ASSOCIATED COLD FRONT DRAPED ACROSS EASTERN PORTIONS OF THE STATE...EXTENDING NORTH FROM DOUGLAS TO SAINT JOHNS. THE FRONT MOVED ACROSS OUR CWA EARLIER TODAY...WIND GUSTS UP TO 43KT/50MPH AND VISIBILITY DOWN TO 1/2 MILE FIRST OBSERVED AT YUMA...THE STRONGER WIND FIELD TRANSLATING EAST WITH TIME ACROSS THE LOWER DESERTS AND GUSTS UP TO 35KT COMMON. WIDELY SCATTERED SHOWERS AND ISOLATED THUNDERSTORMS ACCOMPANIED THE FROPA THROUGH SOUTH-CENTRAL ARIZONA...WITH PEA-SIZED HAIL REPORTED NEAR QUEEN CREEK FROM A FEW STRONGER CELLS THAT FORMED. STRONG GUSTY WINDS ARE EXPECTED TO PERSIST INTO THE EVENING HOURS ALONG WITH AREAS OF BLOWING DUST...MAINLY OVER THE CENTRAL DESERTS. FOR THE MOST PART...EXPECT THE DUST TO REMAIN LOFTED AND SURFACE VISIBILITY TO BE IMPACTED AT TIMES DOWN TO 2-3SM. ANTICIPATE RAPID CLEARING OF CLOUD COVER AS THE TROUGH MOVES EAST AND PRECIPITATION CHANCES DECREASE THIS EVENING...WITH MUCH COOLER OVERNIGHT TEMPERATURES IN

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404270415>

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## FIGURE A-50

### PHOENIX AREA FORECAST DISCUSSION APRIL 26, 2014 – Pg2

5/21/2018

IEM :: AFD from NWS PSR

THE UPPER 40S AND 50S EXPECTED SUNDAY MORNING.

A DRIER NORTHWESTERLY FLOW ALOFT WITH STRONG ATMOSPHERIC SUBSIDENCE FIELDS SHOULD BEGIN TO STABILIZE THE ATMOSPHERE FOR DRY WEATHER SUNDAY AND MONDAY. THE COOLER RESIDUAL BOUNDARY LAYER WILL ALSO AID IN A STRONGER INVERSION EACH MORNING...CAPPING IN SUSPENDED DUST TO CREATE SOME HAZY/DUSTY CONDITIONS EACH MORNING BEFORE ANY MIXING OCCURS. BELOW NORMAL TEMPERATURES ARE FORECAST SUNDAY...WITH A STRONG WARM-UP MONDAY TO NEAR SEASONAL NORMS.

A STRONG AMPLIFIED UPPER LEVEL RIDGE BUILDS ALONG THE WEST COAST TUESDAY...AND NUDGES INLAND WEDNESDAY AND THURSDAY WITH 576DM HEIGHTS EXTENDING FAR NORTH INTO BRITISH COLUMBIA CANADA. THE GFS AND ECMWF ARE IN FAIRLY GOOD AGREEMENT...WITH SOME SUBTLE DIFFERENCES...THAT THE RIDGE REMAINS IN PLACE SPREADING 576-582DM HEIGHTS OVER MOST OF ARIZONA AND SOUTHEAST CALIFORNIA...WITH DRY WEATHER AND ABOVE NORMAL TEMPERATURES IN THE LOW 90S FORECAST IN THIS TIME FRAME. A FEW WEAK SHORT WAVES SLIDE DOWN THE EAST SIDE OF THE RIDGE AND MAY ENHANCE THE LOW LEVEL GRADIENT...GENERATING GUSTY NORTH-NORTHEAST WINDS OVER THE FORECAST AREA...MAINLY DOWN THE COLORADO RIVER VALLEY TUESDAY...MORE ACROSS SOUTH-CENTRAL ARIZONA WEDNESDAY AND THURSDAY.

&&

.AVIATION...

SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL... GUSTY WEST WINDS HAVE TAPERED OFF QUITE A BIT OVER THE PAST FEW HOURS...AND SHOULD STAY MOSTLY BELOW 12KT FOR THE REST OF TONIGHT. WINDS SHOULD FAVOR THE WEST...BUT MAY SWING BACK TO THE EAST OR SOUTHEAST FOR A FEW HOURS AT KPHX AND KIWA LATER TONIGHT AND INTO THE EARLY MORNING SUNDAY. OTHERWISE...WINDS TO RETURN TO THE WEST BY THE EARLY AFTERNOON SUNDAY...UNDER MOSTLY SUNNY OR SUNNY SKIES.

SOUTHEAST CALIFORNIA/SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH... STRONG GUSTY WEST/NORTHWEST WINDS HAVE TAPERED OFF SUBSTANTIALLY SINCE THE LATE AFTERNOON...AND SHOULD REMAIN MOSTLY LESS THAN 15KT FOR THE REST OF TONIGHT. WINDS TO FAVOR THE WEST AT KIPL THRU SUNDAY AFTERNOON...AND THE SOUTHWEST AT KBLH. EXPECT WINDS TO BECOME RATHER LIGHT AND VARIABLE AT KBLH LATER TONIGHT...AND INTO THE LATE MORNING SUNDAY. OTHERWISE SKIES TO BE GENLY CLEAR NEXT 24 HOURS...WITH SOME THIN CIRRUS MOVING OVERHEAD AT TIMES.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.FIRE WEATHER...

TUESDAY THROUGH SATURDAY...

HIGH PRESSURE WILL SETTLE OVER THE AREA NEXT WEEK BUT WINDS WILL BE BREEZY DOWN THE COLORADO RIVER ON TUESDAY. AT THIS TIME IT LOOKS LIKE CRITICAL FIRE WEATHER THRESHOLDS COULD BE MET FOR BRIEF TIME TUESDAY AFTERNOON...BUT STILL A FEW DAYS AWAY. COULD ALSO BE LOOKING AT SOME MODERATE DOWNSLOPE WINDS EAST OF PHOENIX AS WELL. STARTING

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404270415>

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**Fig A-50:** The National Weather Service Area Forecast Discussion 0815 PM PST (0815 PM MST) Saturday, April 26, 2014 issued by the Phoenix office describes the continued movement east of the cold front with strong gusty winds abating later in the evening <https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201404270415>

## FIGURE A-51 SAN DIEGO AREA FORECAST DISCUSSION APRIL 26, 2014 – Pg1

5/18/2018

IEM :: AFD from NWS SGX

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983  
FXUS66 KSGX 270420  
AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
920 PM PDT SAT APR 26 2014

### .SYNOPSIS...

LOW PRESSURE IS MOVING RAPIDLY EAST THIS EVENING...LEAVING BEHIND A DRY NORTHWEST FLOW ALOFT AND ONSHORE FLOW AT THE SURFACE. THE ONSHORE FLOW WILL WEAKEN GRADUALLY THROUGH MONDAY...BUT WINDS WILL REMAIN GUSTY OVER THE MOUNTAINS AND INTO THE DESERTS...AND THE MARINE LAYER WILL CONTINUE PATCHY NIGHT AND MORNING CLOUDS. WARMER SUNDAY THROUGH MONDAY...ESPECIALLY INLAND...THEN MUCH WARMER ALL AREAS FOR THE REMAINDER OF THE WEEK UNDER A STRONG HIGH PRESSURE RIDGE ALOFT AND OFFSHORE FLOW AT THE SURFACE. DAYTIME TEMPERATURES WILL BE WELL ABOVE AVERAGE WITH THE MARINE AIR HELD OFFSHORE. COOLER LATE IN THE WEEK AS THE ONSHORE FLOW IS REESTABLISHED.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

AREAS OF LOW CLOUDS CONTINUE ON SATELLITE IMAGERY ALONG THE COASTAL MOUNTAIN SLOPES...EXTENDING LOCALLY WEST INTO THE VALLEYS. HIGHER CLOUDS WERE EITHER STATIONARY DOWNWIND OF THE MOUNTAIN TOPS...OR PATCHY AND MOVING RAPIDLY SE. SURFACE PRESSURE GRADIENTS WERE

RUNNING 5 TO 7 MBS ONSHORE WITH AN OFFSHORE TREND. STRONG WIND GUSTS WERE STILL BEING MEASURED ON THE WINDIER RIDGES...AND ARE LIKELY STILL OCCURRING ON THE HIGHER DESERT SLOPES AS WELL...BUT NO REPORTS HAVE BEEN NEAR HIGH WIND CRITERIA THIS EVENING.

THE LATEST HIRES MODELS KEEP A PRETTY GOOD WAVE ALONG THE DESERT SLOPES AND FOOTHILLS OVERNIGHT AND ELEVATED WINDS. HOWEVER...THE SURFACE GRADIENT WILL BE WEAKENING...SO THE GUSTS WILL HAVE TO MIX DOWN FROM ALOFT. THIS SHOULD KEEP MAX GUSTS IN THE 45 TO 50 MPH RANGE ON THE DESERT SLOPES. ISOLATED HIGHER GUSTS THROUGH WIND PRONE CORRIDORS MAY OCCUR AT TIMES...BUT OVERALL ADVISORY STRENGTH OR LOWER WIND GUSTS SHOULD BE THE RULE OVERNIGHT. WITH THAT IN MIND...

THE HIGH WIND WARNING OVER THE MTNS/DESERTS HAS BEEN REPLACED WITH AN ADVISORY AND EXTENDED THROUGH 3 AM MONDAY. EVEN THOUGH WINDS WILL LIKELY DROP OFF A BIT ON SUNDAY...MODELS SHOW THEM INCREASING TO ADVISORY STRENGTH AGAIN LATE IN THE DAY AND OVERNIGHT SUNDAY NIGHT ON THE DESERT SLOPES.

THE COLD UPPER LOW RESPONSIBLE FOR OUR BLUSTERY AND SHOWERY WEATHER OVER THE PAST COUPLE OF DAYS IS RAPIDLY MOVING EAST. NORTHWEST FLOW ALOFT IN ITS WAKE WILL BRING DRYING AND GRADUAL WARMING THROUGH MONDAY WITH PATCHY MARINE CLOUDS WEST OF THE MOUNTAINS. GUSTY WESTERLY WINDS WILL HANG ON OVER THE MTNS/DESERTS IN TYPICAL SPRING

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404270420>

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**FIGURE A-51**  
**SAN DIEGO AREA FORECAST DISCUSSION APRIL 26, 2014 – Pg2**

5/18/2018

IEM :: AFD from NWS SGX

FASHION THROUGH SUN NIGHT BEFORE WEAKENING.

FAIR AND PLEASANT WEATHER WILL BE THE RULE SUN/MON WEST OF THE MOUNTAINS AS THE WEATHER PATTERN TRANSITIONS FROM TROUGHING TO RIDGING ALOFT...AND ONSHORE FLOW WEAKENS.

BY TUE OF NEXT WEEK...THE UPPER-LEVEL FLOW ACROSS THE WESTERN HEMISPHERE WILL HAVE BUCKLED...WITH HIGHLY AMPLIFIED TROUGHS AROUND 145W...AND OVER THE CENTRAL U.S...AND A SHARP RIDGE SPLITTING THE TWO ALONG THE WEST COAST. THIS PATTERN WILL PERSIST THROUGH ABOUT THU BEFORE BREAKING DOWN. AS THE RIDGE BUILDS...SURFACE HIGH PRESSURE WILL STRENGTHEN SOUTHWARD ACROSS THE GREAT BASIN AND THROW OUR SURFACE WINDS OFFSHORE. THE COMBINATION OF OFFSHORE FLOW AND SUBSIDENCE AND WARMING ALOFT WILL SET THE STAGE FOR HOT DAYS TUE-THU OF NEXT WEEK AT LOWER ELEVATIONS. GRADUALLY COOLER FRI THROUGH SUN AS ONSHORE FLOW AND THE MARINE LAYER RETURN WEST OF THE MOUNTAINS... BUT CONTINUED HOT OVER THE LOWER DESERTS.

&amp;&amp;

.AVIATION...

270400Z...COAST/VALLEYS...AREAS OF BKN CLOUDS WITH BASES 2500-3500 FT MSL AND TOPS TO 6000 FT MSL WILL OCCUR OVERNIGHT AND THROUGH 17Z SUN...WITH GREATEST COVERAGE IN THE VALLEYS. MOSTLY SCT CONDITIONS WILL OCCUR SUN AFTERNOON...WITH STRATUS SPREADING INLAND FROM THE COAST SUN EVENING WITH SOMEWHAT LOWER BASES...POSSIBLY BELOW 2000 FT MSL.

MTNS/DESERTS...AREAS OF TERRAIN OBSCURATIONS WILL OCCUR BELOW 6000 FT MSL...MAINLY COASTAL SLOPES...THROUGH 17Z SUN. STRONG GUSTY WINDS WILL OCCUR TONIGHT/SUNDAY/SUNDAY EVENING OVER RIDGES...DESERT SLOPES AND EAST OF MOUNTAIN PASSES WITH LOCAL SFC GUSTS OVER 45 KNOTS AND ASSOCIATED UP/DOWNDRAFTS AND LLWS.

&amp;&amp;

.MARINE...

900 PM...WINDS WILL GRADUALLY DECLINE OVERNIGHT...THOUGH THE OUTER WATERS WILL HAVE ANOTHER INCREASE IN WINDS SUNDAY AFTERNOON/EVENING. WINDS WILL MOSTLY BE IN THE 20-25 KNOT RANGE WITH GUSTS 25-30 KNOTS IN THE OUTER WATERS THROUGH SUN EVENING...BUT WINDS SHOULD BE BELOW SMALL CRAFT ADVISORY CRITERIA BY SUN MORNING IN THE INNER WATERS. THE SHORT-PERIOD SWELL WILL CONTINUE IN THE OUTER WATERS THROUGH SUN EVENING WITH OCCASIONAL SEAS AROUND 10-11 FT. SMALL CRAFT ADVISORY CONTINUES UNTIL 11 PM SUNDAY FOR THE OUTER WATERS AND 11 AM SUNDAY FOR THE INNER WATERS...SEE LAXMMWSGX FOR MORE DETAILS.

&amp;&amp;

.BEACHES...

A LONG-PERIOD SOUTH SWELL SHOULD PEAK LATE TONIGHT/SUNDAY MORNING AT 4 FT/17-19 SECONDS...LIKELY PRODUCING HIGH SURF OF 5-8 FEET WITH LOCALLY HIGHER SETS AND STRONG RIP CURRENTS ALONG THE ORANGE COUNTY BEACHES. A HIGH SURF ADVISORY IS IN EFFECT FOR THE ORANGE COUNTY

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404270420>

3/5

## FIGURE A-51

### SAN DIEGO AREA FORECAST DISCUSSION APRIL 26, 2014 – Pg3

5/18/2018

IEM :: AFD from NWS SGX

COAST THROUGH SUNDAY NIGHT. SAN DIEGO COUNTY WILL BE LESS FAVORED...DUE TO THE SOUTHERLY DIRECTION OF THE SWELL...BUT WILL STILL SEE ELEVATED SURF...STRONG RIP CURRENTS AND ALSO LONGSHORE CURRENTS. A BEACH HAZARDS STATEMENT REMAINS POSTED FOR THAT AREA. THE SWELL WILL SLOWLY LOWER MONDAY THROUGH TUESDAY.

&amp;&amp;

.SKYWARN...  
SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&amp;&amp;

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...WIND ADVISORY UNTIL 3 AM PDT THIS MONDAY FOR THE APPLE AND LUCERNE VALLEYS...COACHELLA VALLEY...RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS...SAN DIEGO COUNTY DESERTS...SAN DIEGO COUNTY MOUNTAINS.

HIGH SURF ADVISORY UNTIL 10 PM PDT SUNDAY FOR THE BEACHES IN THE ORANGE COUNTY COASTAL AREAS.

BEACH HAZARDS STATEMENT THROUGH LATE MONDAY NIGHT FOR THE SAN DIEGO COUNTY COASTAL AREAS.

PZ...SMALL CRAFT ADVISORY UNTIL 11 PM PDT SUNDAY FOR THE WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER EXTENDING 30 TO 60 NM OUT INCLUDING SAN CLEMENTE ISLAND.

SMALL CRAFT ADVISORY UNTIL 11 AM PDT SUNDAY FOR THE COASTAL WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER AND OUT 30 NM.

&amp;&amp;

\$\$

PUBLIC...JAD  
AVIATION/MARINE...MAXWELL

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404270420>

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**Fig A-51:** The National Weather Service Area Forecast Discussion 0820 PM PST (0920 PM PDT) Saturday, April 26, 2014 issued by the San Diego office describes the rapidly moving low pressure to the east leaving behind a dry northwest flow aloft and onshore flow at the surface

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDSGX&e=201404270420>

**FIGURE A-52**  
**IMPERIAL COUNTY ISSUED NO BURN DAY APRIL 25, 2014**

Imperial County Air Pollution Control District  
Daily Weather and Ag. Burning Information

Date: Friday, April 25, 2014

Yesterday's Weather Observations at Imperial Airport (ASOS) FAA/NWS

LOCAL TIME	TEMP °F	WINDS MILES PER HOUR	VISIBILITY MILES
7 AM	61	NW-5	10
8 AM	67	WNW-5	10
9 AM	73	WNW-6	10
10 AM	78	N-5	10
11 AM	82	VRBL-3	10
NOON	86	NE-7	10
1 PM	88		10
2 PM	90	CALM	10
3 PM	90	SE-10	10
4 PM	91	E-8	10
5 PM	89	SE-7	10
6 PM	89	ESE-9	10
7 PM	87	SE-9	10

Max. Temperature yesterday was 91 degrees

Today's Mt. Signal Visibility at 7:30 AM YES NKX 12Z 500 MB Height \_\_\_\_\_  
1Y7 12Z 500 MB Height \_\_\_\_\_

**Forecasts**

**High Today** 87-92

	Local Forecast (Issued 8 AM Local)	Computer Forecast (RUC 40KM 12Z)
Est. Time Mixing Height reaches 3000 feet	-	<u>10:00</u>
Forecast of Maximum Mixing Height	- feet	<u>8,103</u> feet
Forecast for Morning surface winds	<u>S 5 to 10</u> mph	<u>S 5 to 10</u> mph
Forecast for afternoon surface winds	<u>W 20 to 30</u> mph	<u>W 20 to 30</u> mph
Forecast for evening surface winds	<u>W 20 to 30</u> mph	
Forecast 10 AM - 3 PM transport winds	<u>W 20 to 30</u> mph	

Comments/Complaints: Gusts up to 40 MPH

---

Burn Hours \_\_\_\_\_ ARB No Burn Day \_\_\_\_\_ District called No Burn Day X

Total actually burned today \_\_\_\_\_ acres Crops burned \_\_\_\_\_

Int FG

IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT 2011

**Fig A-52:** The “Daily Weather and Ag. Burning Information” for April 25, 2014 is the cover page containing summary wind information used in the determination to allow burning. The Imperial County Air Pollution Control District called a “No Burn Day” for April 25, 2014



**FIGURE A-53**  
**IMPERIAL COUNTY ISSUED NO BURN DAY APRIL 26, 2014**

Imperial County Air Pollution Control District  
Daily Weather and Ag. Burning Information

Date: Saturday, April 26, 2014

Yesterday's Weather Observations at Imperial Airport (ASOS) FAA/NWS

LOCAL TIME	TEMP °F	WINDS MILES PER HOUR	VISIBILITY MILES
7 AM	61	VRBL-3	10
8 AM	69	SSE-7	10
9 AM	74	SSE-5	10
10 AM	77	VRBL-3	10
11 AM	82	W-8	10
NOON	86	WSW-14G31	10
1 PM	88	WSW-15	10
2 PM	89	WSW-18	10
3 PM	89	WSW-20G30	10
4 PM	87	WSW-22G32	10
5 PM	84	WSW-27G37	9
6 PM	80	WSW-24G32	10
7 PM	75	WSW-30G37	9

Max. Temperature yesterday was 90 degrees

Today's Mt. Signal Visibility at 7:30 AM YES NKX 12Z 500 MB Height \_\_\_\_\_  
1Y7 12Z 500 MB Height \_\_\_\_\_

**Forecasts**  
**High Today** 73-82

	Local Forecast (Issued 8 AM Local)	Computer Forecast (RUC 40KM 12Z)
Est. Time Mixing Height reaches 3000 feet	-	<b>7:00</b>
Forecast of Maximum Mixing Height	-	<b>7,920</b>
Forecast for Morning surface winds	<b>S 5 to 10</b> mph	<b>W 20 to 35</b> mph
Forecast for afternoon surface winds	<b>W 20 to 35</b> mph	<b>W 20 to 35</b> mph
Forecast for evening surface winds	<b>W 20 to 35</b> mph	
Forecast 10 AM - 3 PM transport winds	<b>W 20 to 35</b> mph	

Comments/Complaints: Gusts up to 45 MPH

---

Burn Hours \_\_\_\_\_ ARB No Burn Day \_\_\_\_\_ District called No Burn Day X

Total actually burned today \_\_\_\_\_ acres Crops burned \_\_\_\_\_

IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT 2011 Int FG

**Fig A-53:** The “Daily Weather and Ag. Burning Information” for April 26, 2014 is the cover page containing summary wind information used in the determination to allow burning. The Imperial County Air Pollution Control District called a “No Burn Day” for April 26, 2014



**FIGURE A-54**  
**IMPERIAL COUNTY AFFIDAVIT OF 30 PUBLIC NOTICE**

**AFFIDAVIT OF PUBLICATION**  
**(2015.5 C.C.P.)**

**STATE OF CALIFORNIA**

County of **Imperial**

I am a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the above entitled matter. I am the principal clerk\* of the printer of the

Imperial Valley Press

a newspaper of general circulation, printed and published daily in the City of El Centro, County of Imperial and which newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of Imperial, State of California, under the date of October 9, 1951, Case Number 26775; that the notice, of which the annexed is a printed copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

01/04.

all in the year 2017

I certify (or declare) under penalty of perjury that the foregoing is true and correct.



SIGNATURE

Name of Account: I C AIR POLLUTION CONTROL

Order Number: 11006865

Ad Number: 31204312

\* Printer, Foreman of the Printer, or Principal Clerk of the Printer

Date: 4 th day of January, 2017.  
 at El Centro, California.

This space is for the County Clerk's Filling Stamp:

**NOTICE OF AVAILABILITY  
 OF THE DEMONSTRATION OF THE OCCURRENCE  
 OF TWO EXCEPTIONAL EVENTS (EE) FOR  
 MARCH AND APRIL 2014**

The Imperial County Air Pollution Control District (Air District) has prepared two Draft Exceptional Event (EE) Demonstrations which support the requested exclusion of the measured concentrations at the Brawley and Niland monitors on March 17, March 26, a combined March 30 and April 1, April 12 and 13, and April 25 and 26. (See below).

**March 17, 2014**  
 Brawley 24 hr concentration from the Federal Equivalent Method BAM monitor of 190.9 ug/m<sup>3</sup>

**March 26, 2014**  
 Brawley 24 hr concentration from the Federal Equivalent Method BAM monitor of 375.3 ug/m<sup>3</sup>  
 Niland 24 hr concentration from the Federal Equivalent Method BAM monitor of 279.7 ug/m<sup>3</sup>

**March 30 and April 01, 2014**  
 Brawley 24 hr concentration from the Federal Reference Method monitor of 220 ug/m<sup>3</sup>  
 Brawley 24 hr concentration from the Federal Equivalent Method BAM monitor of 160.5 ug/m<sup>3</sup>

**April 12 and April 13, 2014**  
 Niland 24 hr concentration from the Federal Equivalent Method BAM monitor of 167.5 ug/m<sup>3</sup>  
 Brawley 24 hr concentration from the Federal Equivalent Method BAM monitor of 166.8 ug/m<sup>3</sup>

**April 25 and April 26, 2014**  
 Brawley 24 hr concentration from the Federal Equivalent Method BAM monitor of 185.4 ug/m<sup>3</sup>  
 Brawley 24 hr concentration from the Federal Equivalent Method BAM monitor of 313.3 ug/m<sup>3</sup>

The public and all interested parties are encouraged to review and comment on the Draft EE's for March 17, March 26, March/April 30-01, April 12-13, and April 25-26 of 2014 which provide the supporting evidence that on the days indicated in March and April of 2014 the Brawley and Niland monitors were impacted by elevated levels of particulate matter of an aerodynamic size less than 10 microns (PM<sub>10</sub>) caused by winds which followed weather systems that impacted Riverside, Imperial and San Diego counties. The Draft EE Demonstrations provide the scientific justification for the requested exclusions. The Air District is soliciting and accepting comments for 30 days commencing the date of the publication of this notice. The final closing date for submitting comments is February 3, 2017 by close of business.

The Draft EE's for March and April of 2014 are available for download at the Air District website at [www.co.imperial.ca.us](http://www.co.imperial.ca.us), under "Air Pollution". To view the Draft EE demonstrations, please visit the Air Pollution Control District office at 150 S. 9th Street, El Centro. Should you have any questions or concerns please feel free to call our office between 8am and 5pm at (442) 265-1800 and ask for Monica N. Soucier.

L779 J4

**Fig A-54:** Is a copy of the Imperial County Air Pollution Control District official record (affidavit) affirming the publication of the notice of availability of the Exceptional Events Demonstration for April 25, 2014 and April 26, 2014. The date for closing comments was February 3, 2017.

**FIGURE A-55**  
**IMPERIAL COUNTY COMMENTS**  
**REGARDING THE APRIL 25, 2014 AND APRIL 26, 2014 EE DEMONSTRATION**

The Air District received no comments